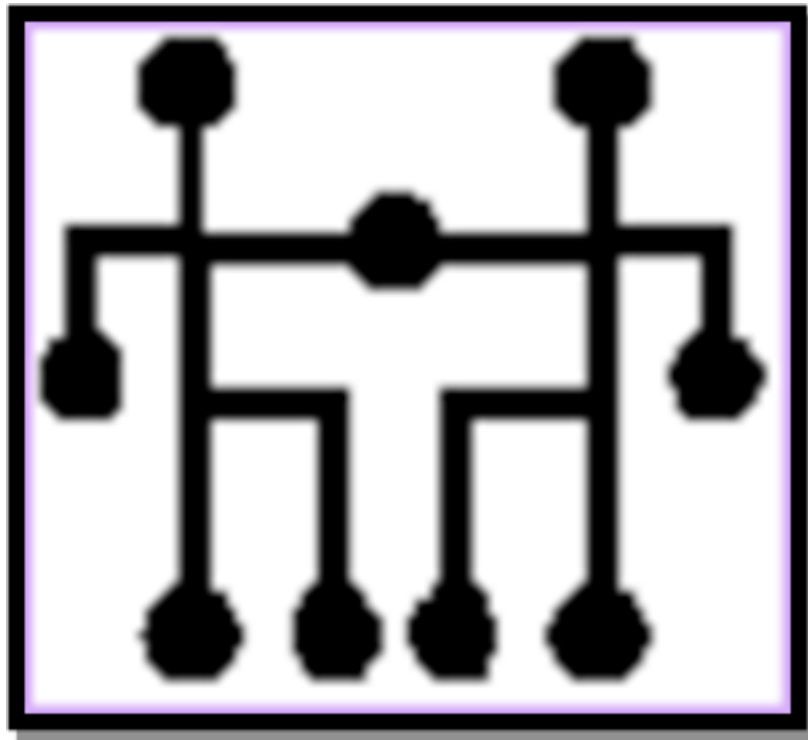


Howard University
Department of Electrical and Computer Engineering

Radio Television Instant Search Engine

**Senior Design I/II
Final Report Submission**



The Cyberplex Blueprint Team:
Christopher Caesar
Jonathan Murphy
Bryant Beeler

SUBMISSION AND APPROVAL

This project report is submitted for partial fulfillment of the Senior Design course describing the design and implementation of our project.

<u>Jonathan J. Murphy</u>		
Team Member Name	Signature	Date

<u>Christopher Caesar</u>		
Team Member Name	Signature	Date

<u>Bryant Beeler</u>		
Team Member Name	Signature	Date

I approve this project report:

<u></u>		
Advisor Name	Signature	Date

<u></u>		
Class Instructor Name	Signature	
Date		

Executive Summary

The objective of this proposal is to outline the details of the design proposed by the Starplex Blueprint Team for the challenge set by DigiClips, Inc. The focus of this project was to design a semi-autonomous web based search engine to capture, stream and analyze television, social

networks (Facebook, Twitter, LinkedIn, YouTube, etc), on-line newspapers, magazines, blogs, etc. for general public and public relations executives for personal and organizational use for media analysis. The full functionality of the site is to strive off of the input of members and is to provide a key word search through a database client via close caption to match from the user and link the close caption to still pictures, click and play the video/audio of the segment searched for and generate text reports upon request. Various methods were researched and analyzed in arriving at the final solution utilized a PHP coupled with HTML to create a dynamic web page that would insert and extract records from a MySQL relational database; however, we were only successful in completing the video portion of the initial Radio/Television(RTV) design requirement.

Table of Contents

Certification Page	2
Executive Summary	3
Table of contents	4

I. Background	5
II. Problem Formulation and Current Status of Art	5
III. Constraints and Criteria of the Design Requirements	6
IV. Solution Generation and Selection of Top Design	8
V. Implementation of the Top Design	10
VI. Performance Analysis and Evaluation of the Project	12
A. Results/Simulation	12
B. Tables/Graphs	17
C. Evaluation against the design requirements	17
VII. Conclusions	18
VIII. Recommendations	19
IX. References	19
X. Appendixes	19
A. Final Design Requirement	19
B. Final Design Proposal	22
C. Source Code Listing (if any)	23
D. Design Details (if any)	41
E. Resumes of all team members	41

I. Background

DigiClips was founded in 2003 as a Colorado Class “C” media monitoring corporation, which monitors all types of media from newspaper, websites, online magazines, blogs and news correspondent sites in 210 US markets and 89 International Markets. Services includes the research, compilation and distribution of news stories and commercial tracking in multiple formats: DVD, CD, audio clip, transcript and log summaries delivered by mail, email or fax.

Some of the clients the DigiClips service are media relations personnel from universities, government, and various industries. The primary goal of DigiClips, Inc. is to deliver media content to our clients within minutes of the content being aired through different media delivery methods with the primary method being via the Internet. By delivering within minutes of air time over the Internet, DigiClips, Inc. will create a self-service method for clients to achieve timely planning and responses to public relations concerns.

II. Problem Formulation and Current Status of Art

Problem Definition

Our goal is to create a real time web search engine capable of analyzing media outlets for PR purposes. We want to be able to design a search engine sophisticated enough to give accurate results, but be simple and easy enough for even the computer illiterate user to use. This search engine will be able to access different types of media such as live TV and social networks.

Similar Product in the market

There are currently similar components out on the market but there is not a similar product out on the market that is capable of meeting all the specs that were laid out by Digiclips. Digiclips has taken the steps toward developing the product but has been unsuccessful in the past. There was no similar product that works successfully, but the team will use past attempts and research to put together a product that solves the problem and meets as many specs as possible. This will be the first time that all of the components are put together in a format and interface that will solve the problem specific to the problem given to the team.

Similar Problem Already Solved?

The problem has already been solved on the level of the individual components. There are already programs out that will allow for closed captions and speech to be dictated. The challenge is getting the different components to communicate cohesively together in one environment while maintain a user-friendly easy-to-use interface.

Available Technology

There is new technology available in comparison to the products that are already in place. There have been advances in microprocessors. There are similar products but the group will be using open source material from existing products like:

Google- Search the world's information, including web pages, images, videos and more. Google has many special features to help you find exactly what you're looking for.

Bing-Bing is a search engine that finds and organizes the answers you need so you can make faster, more informed decisions.

Yahoo-The search engine that helps you find exactly what you're looking for. Find the most relevant information, video, images, and answers from all across the Web.

Weakness of the Current Solutions

The weakness of the current state could best be described as repetitive. The difficulty with the search engines today is that they depend on other sites to retrieve the information they provide for their own sites. In addition, so when something happens it isn't instantly available to one person but once one web search engine has access to it, they all have access to it.

III. Constraints and Criteria of the Design Requirements

Design and Measurement Requirements

The following design requirements and constraints were drawn up to guide the design of the system:

- Our search engine application will be written in C++ software language.
- SQL is also to be used in order to import the closed caption with the video/audio data into the SQL relational database.
- The front end web site is to be developed for data to be accessible to users.
- Connection and usage of an HVR board to record and capture live video.
 - A PCI express slot is also required to allow connection for the hardware (namely the HVR board).
 - Access to cable television is also required in order to be able to pull a video signal.
- There aren't any measurement requirements of note to speak of, only preference of the storage size for the database
- Video files must be received and recorded with a hardware device capable of receiving closed captioning as well

Overall Function

Retrieving a key word search from the user to match the closed caption, still pictures, click and play the video/audio of the segment searched for and generate text reports.

Performance

- User should be able to receive search results either by doing a manual closed caption search or by receiving alerts to a profile account they have setup with DigiClips.
 - Search results will be based on variables put in by the user
 - Range of results can also be related to a time interval put in by the user.
 - A raid controller with fifteen 1.5 TB hard drives will serve as the main database.
- Turnaround time from uploading to information being able to be search-able in the database should not be any longer than 5 seconds.

Guidelines

We worked along with Mr. Robert Shapiro of DigiClips Inc. and were provided with some technical support through an IT administrator who also works with DigiClips. It is to be noted that there are no developmental restrictions, only suggestions and guidelines based on what has been done already. Our progression will be based off of the ability to communicate with DigiClips is reliant on exchanging emails with Mr. Shapiro, who is an owner of the Colorado based company, and our independent research. There is also a computer called “digiclipstestbox” where we would be able to log into and and remotely simulate the progress at which Digiclips Inc. has completed to date.

Required Compliance

All software we will be using will be open-source, so there are no copyright legal issues. However we did have to sign a confidentiality agreement before being allowed access to the development software and company infrastructure secrets disclosed. This prohibits us from using the software or the project in general for financial gain, or to aid any potential competitors with DigiClips. It also prevents us from disclosing any information about DigiClips client list, trade secrets, or any other company information without authorization.

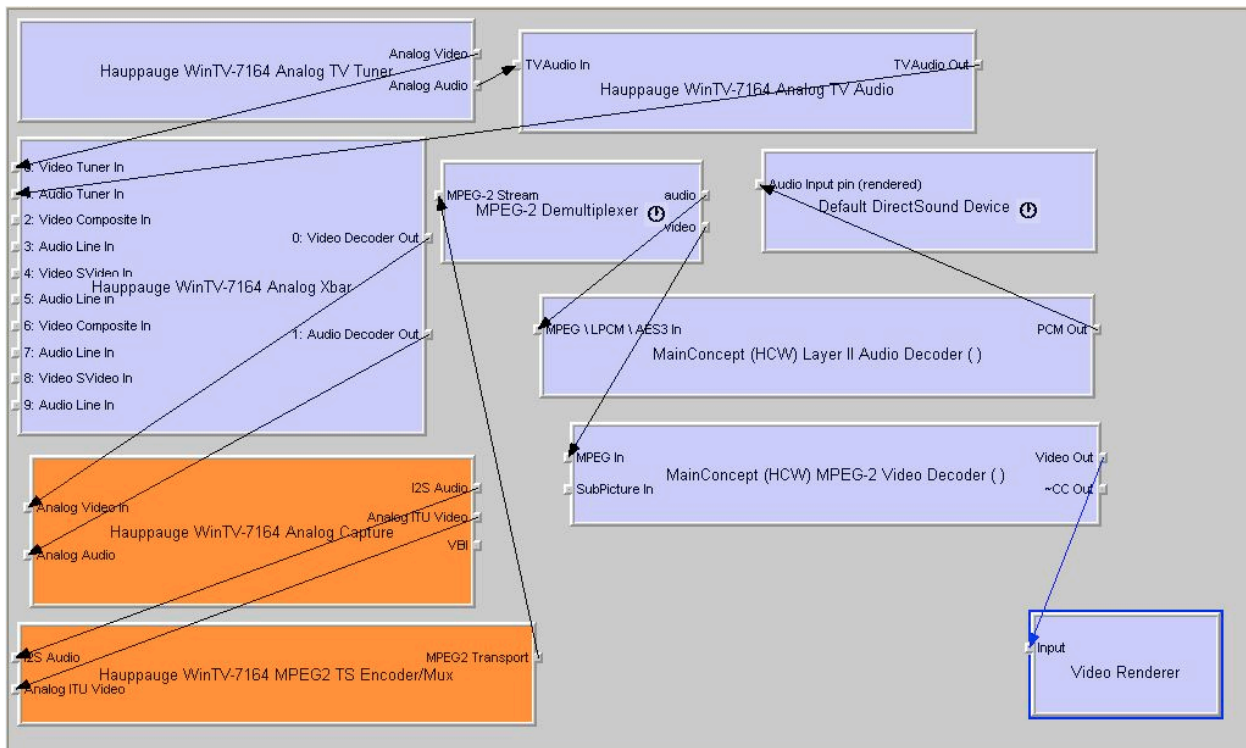
IV. Solution Generation and Selection of Top Design

Primary Solution Design

Our goal was to create the latest most innovative and captivating instant media provider. The search engine will work essentially off of the closed captioning feature where the user will

explain exactly what information is needed. The search engine will then sift through the database for the exact words retrieved from the user. In addition, to the web content it will also retrieve scripts of video clips to also provide rich media to the user which will be collected by the integrated Hauppauge HVR 2250 board. Furthermore, team Cyberplex Blueprint will also renovate the company website in an attempt to make the web service more edgy and user friendly.

Initial Concept Study



Concept Development and Implementation Study

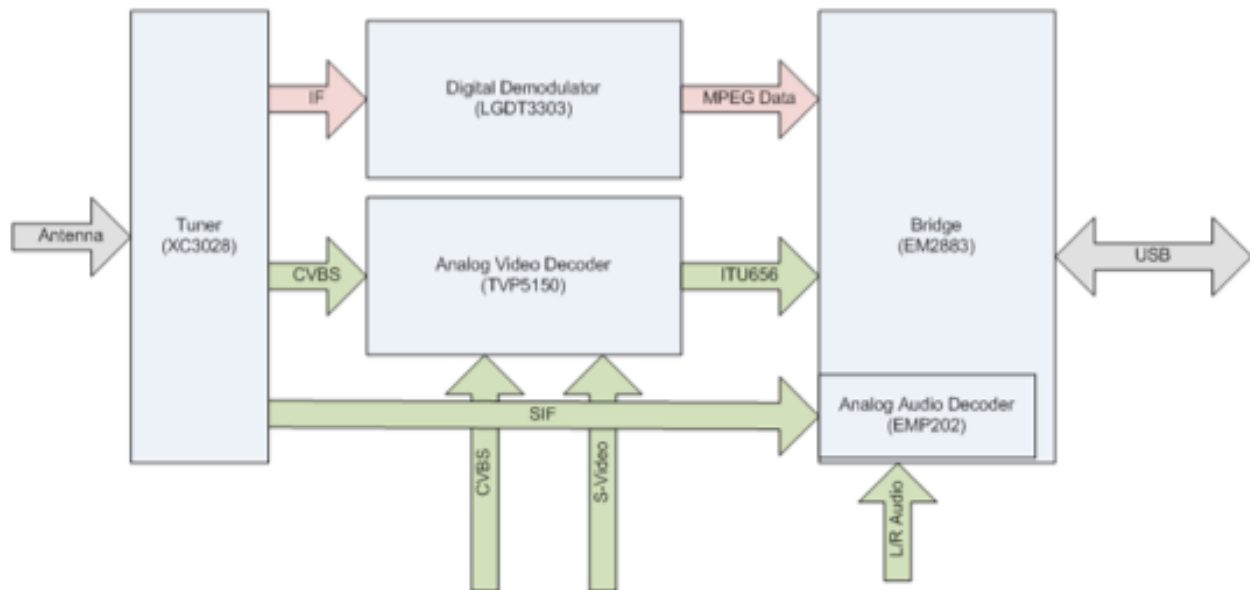
Brainstorming, and then developing ideas for a functioning program that will meet all the specifications and also be user-friendly and present ease of use to the most computer illiterate user.

Understanding and deciding what components needed to create a basic functional search engine will be the most fundamental step in our research and planning stage; if we understand what components are absolutely necessary we can then begin going our own way from those footprints already made. In addition, coupling the implementation of the software with the hardware will be the cornerstone to the completion of the project for the hardware will provide a pertinent aspect to the overall project.

Implementation Development

Obtaining the components necessary for complete assembly of the hardware required to put together the RTV search engine. Also, obtain the extra programming and database knowledge necessary to create the program, interface, and location to store the data. The team will also have to constantly obtain knowledge and suggestions from Digiclips in relation to the progress of the team and any changes in specifications.

Initial Design



Selection of Top Design

Understanding the aforementioned requirements, guidelines, and restrictions for the RTV search engine, and gain a basic understanding of the work and research that has been done in the past in order to apply it accordingly to the immediate task. After weeks of background research on how DigiClips Inc. provides the media to its customers, we had to compromise the Win-TV-HVR 2250 board for the WinTV-HVR 1600 which provided more functionality for our new design. In addition to hardware accommodations we decided to use PHP, to communicate with the database dynamically, coupled with HTML, to create the web interface that the user would interact with.

V. Implementation of the Top Design

In order to create results for the search engine, we used television recordings that were extracted using the Win-TV-HVR 1600 board. The HVR 1600 is an internal HDTV card capable of streaming and recording digital television up to 1080i definition. The HVR also comes equipped with a MPEG-2 hardware encoder that allows for recordings to be formatted without sacrificing processing speed on the PC. For those without antenna or cable box access, the HVR board has a digital ATSC (Advanced Television Systems Committee) tuner also built into it. Once viewable

channels are scanned and located. They can be recorded with embedded closed captioning files. After recording of a video file is complete, the closed captioned text can then be extracted using CCExtractor and stored as either an .srt or .txt file, depending on format preference. The video file itself is stored in a separate folder on the desktop. Once files are on the hard disk of the users' computer the user must then upload files via the user interface to the database with its given form credentials, to ensure that the clip is stored to the correct table within the database. In the event that records/submissions have the same form credentials the programming behind the user interface will tell the relational database management system (RDBMS), MySQL, to associate the two submissions to each other in the Microsoft SQL Server.

To communicate, inserting and extracting, with the Microsoft SQL Server we have to code in SQL language to ensure the correct information being processed. SQL referred to as Structured Query Language is a programming language designed for managing data in relational database management systems (RDBMS), MySQL. MySQL is the world's most used relational database management system that runs as a server providing multi-user access to a number of databases. MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack—LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python" which is why we decided to create the user interface with the first developed server-side scripting language, PHP, to be embedded into an Hypertext Markup Language (HTML) source document, rather than calling an external file to process data. Ultimately, the code is interpreted by a Web server with a PHP processor module which generates the resulting Web page. From there the information captured from the web page will be inputted or extracted from the Microsoft SQL Server. Microsoft SQL Server is a relational database server whose primary function is to store and retrieve data as requested by other software applications, be it those on the same computer or those running on another computer across a network (including the Internet).

The primary focus is to try to eliminate or cut down on the time that the files are uploading to the database with the current state of Digiclips, Inc. it take approx 5+ hours to upload a file to be able to be searched for within the database, but all the issues are going to be addressed in the designs. The primary idea behind this project is to design a web page within an environment that is able to retrieve the information from the user and simultaneously process it and make it available for other users to search for the record within the database.



Above: Inventory photo of HVR 1600 board

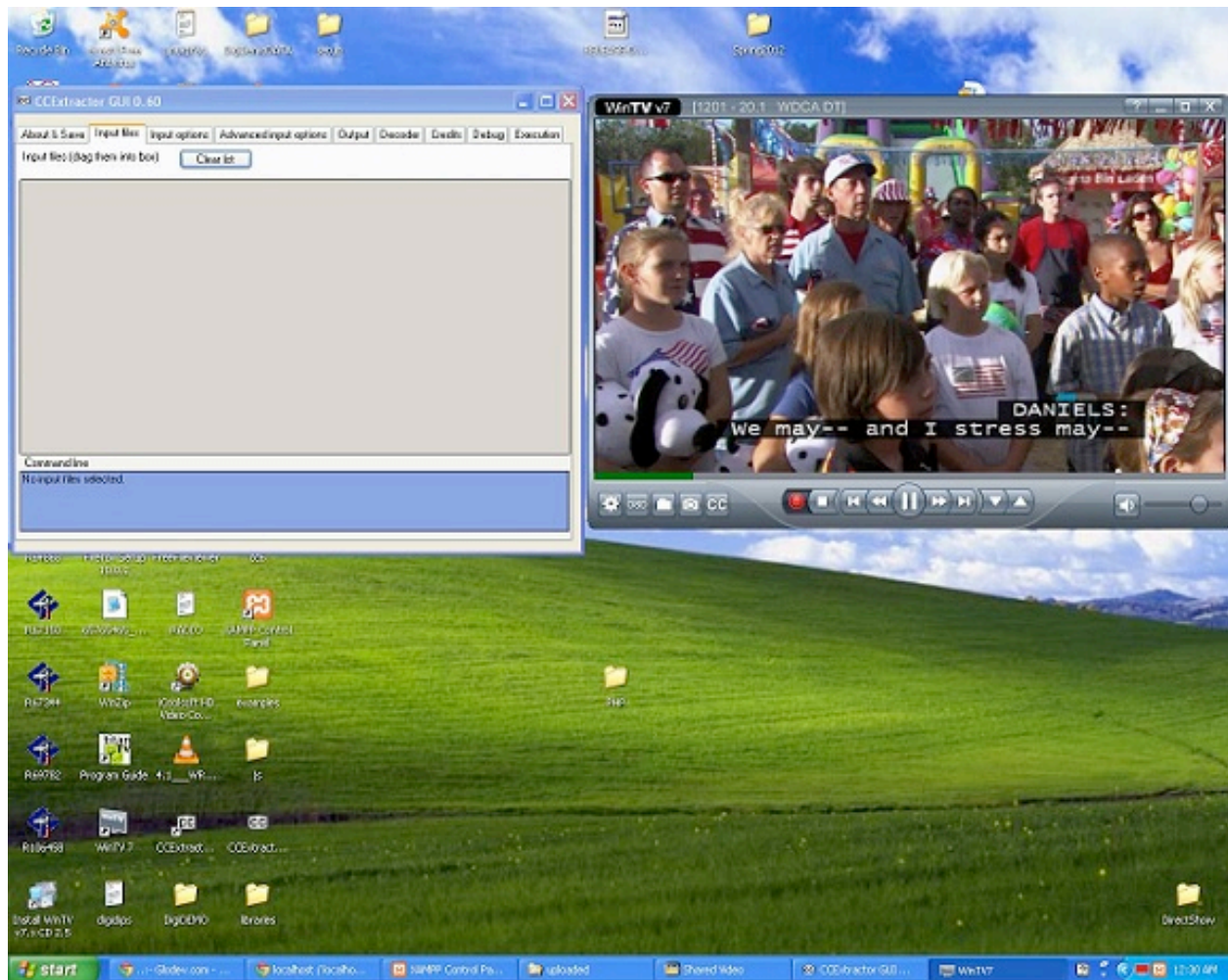
Knowledge and Relevant Coursework

This design makes use of the knowledge we have already acquired and that which will need to be acquired during the design process. The knowledge that the team has acquired in C++ will prove most useful in the execution of the task. Also, there has been research and knowledge acquired on behalf of Digiclips prior to the team's joining the project. The team will utilize the information that has already been found and applied by Digiclips on past endeavors and apply it accordingly. The Team has some C++ experience but will have to gain more depth in experience and application of programming and databases in order to successfully complete the task. Open source information will also be a pivotal source of information so that the team can use common knowledge and research that has already been done and is available to the public. The application of the open source information will allow the team for focus more on tasks that require more detail and have not yet been solved as it pertains to the task.

Design Critique and Analysis

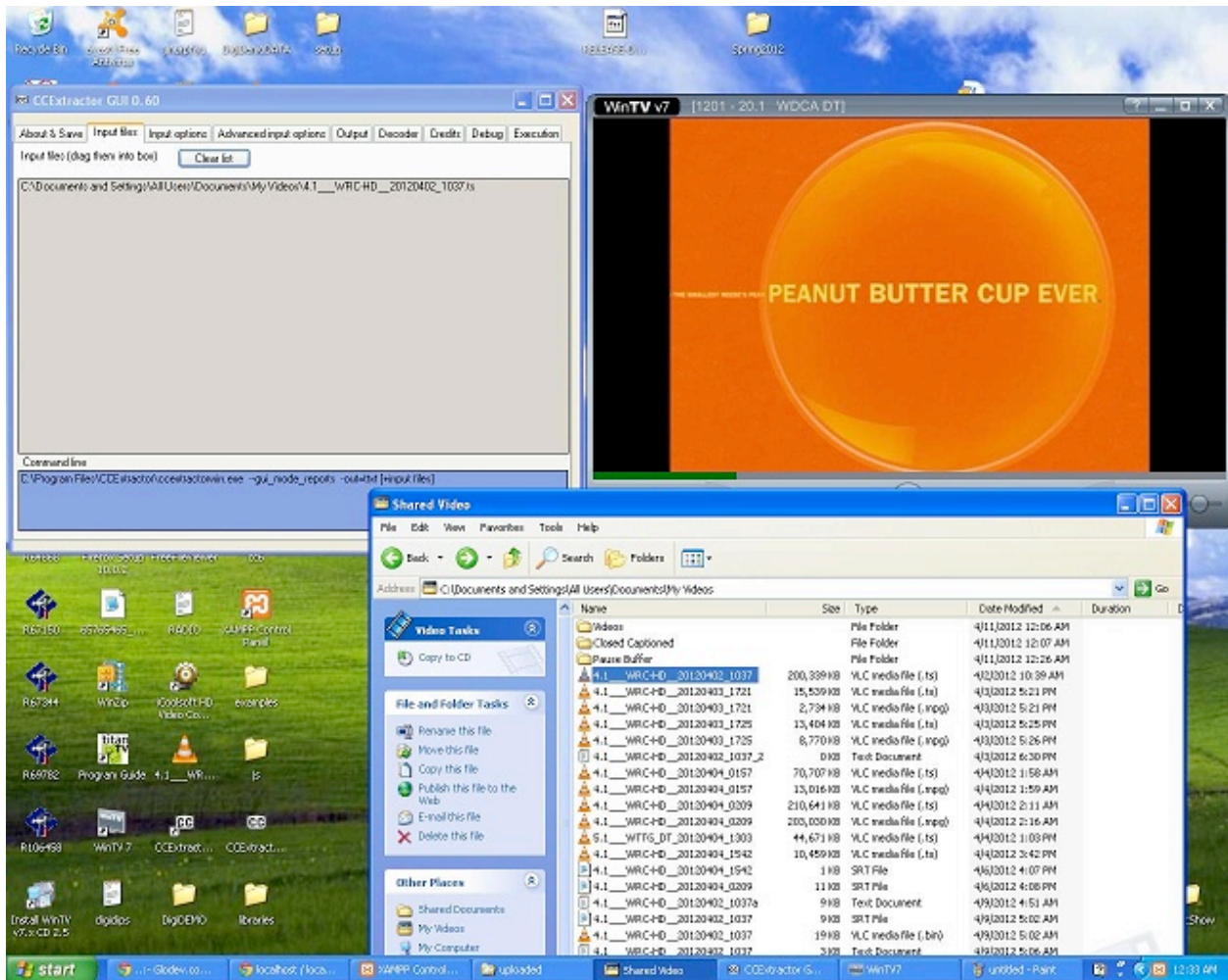
This includes conducting multiple tests on the hardware and program through each of the 10 phases in order to ensure that the project is ready and capable to move on to the next phase of production and programming. Also to make sure it completely functions while adhering to the guidelines & restrictions that were made known to the team by Digiclips. This will also be the time period where adjustments will be made to increase the efficiency and user-friendliness of the RTV search engine. This time will also be used to add to the aesthetics of the program and make it more aesthetically pleasing.

VI. Performance Analysis and Evaluation of the Project

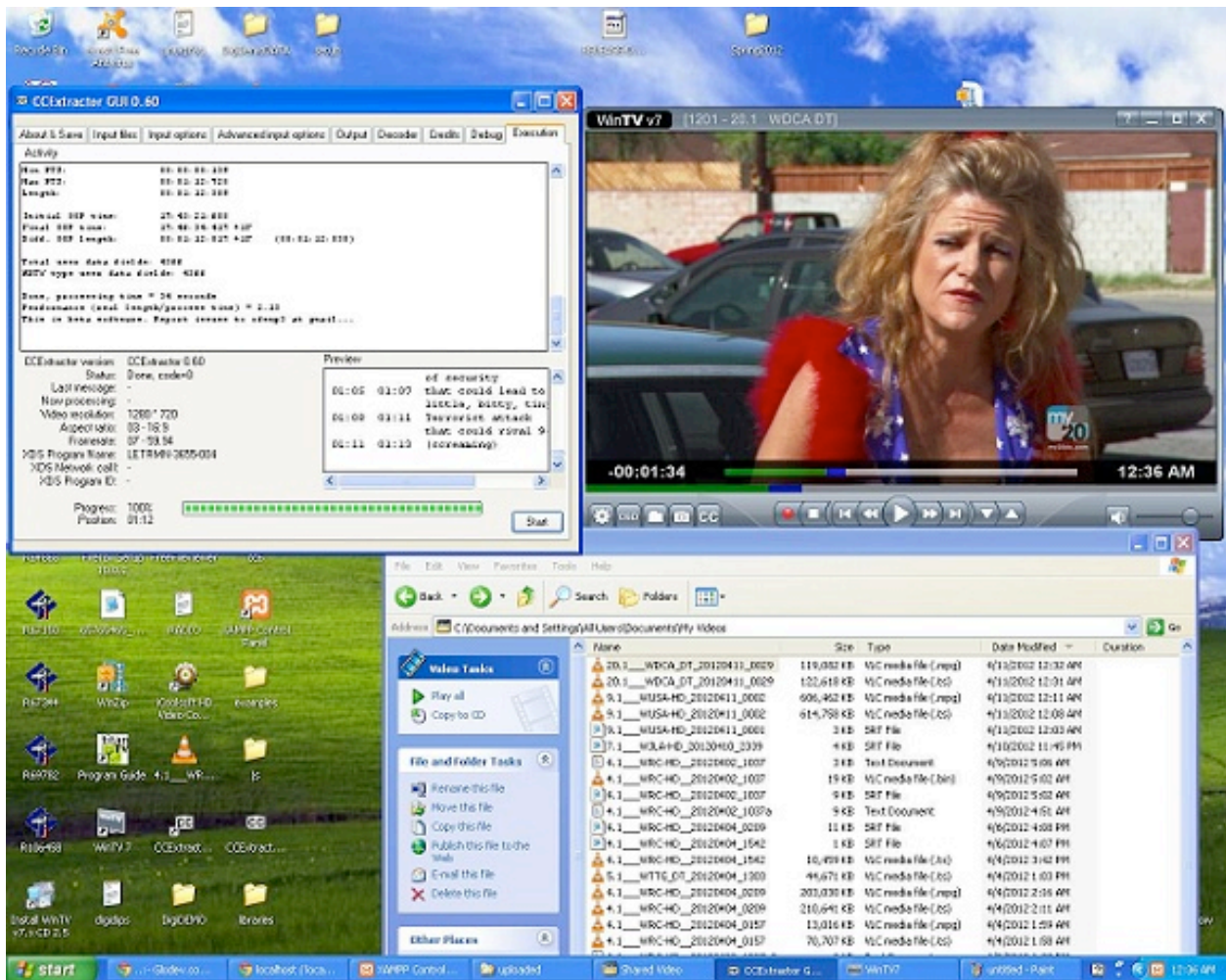


Results/Simulation

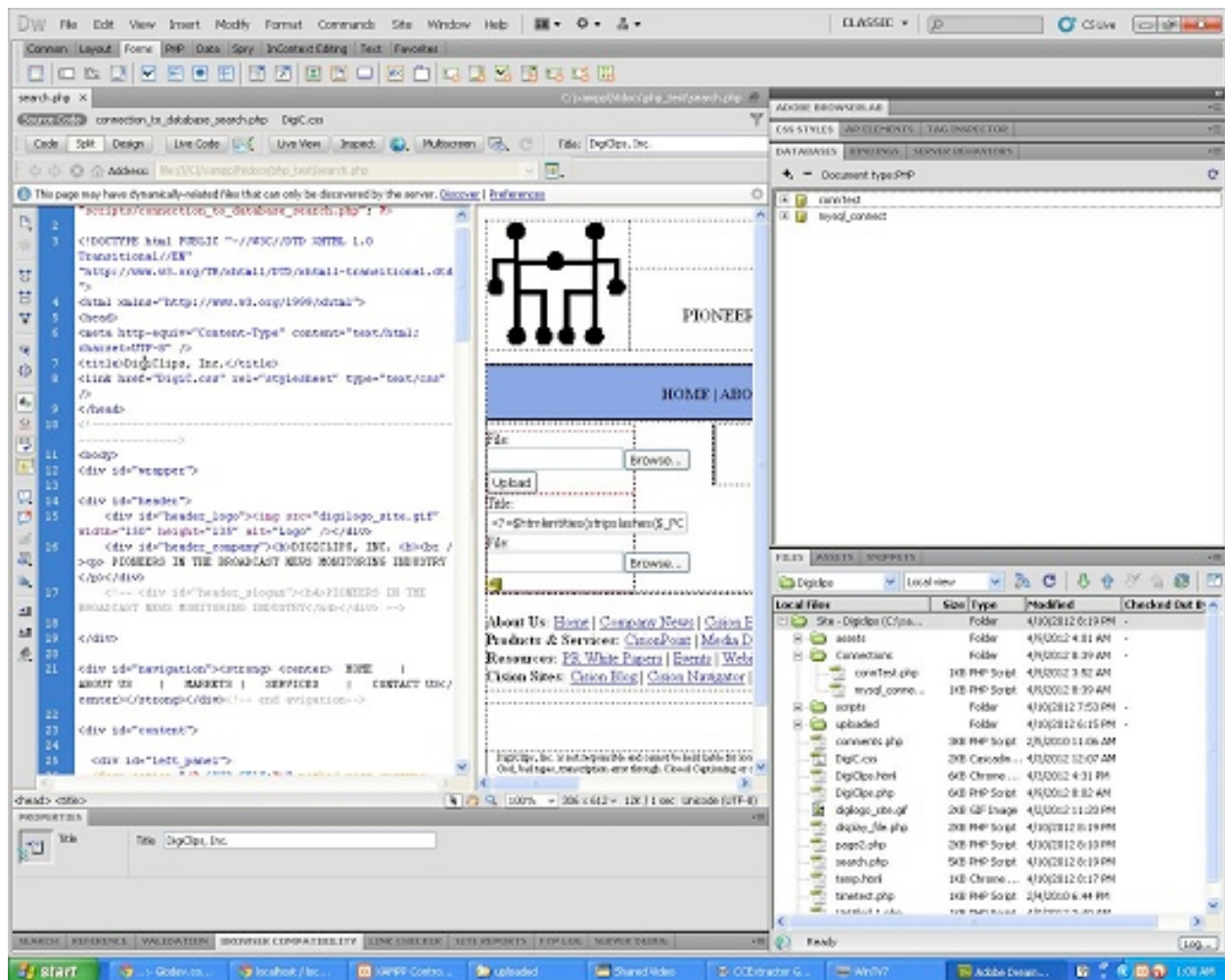
The above figure shows the TV signal being received along with the embedded closed captioning, which will be extracted by the CCExtractor (left) once the stream is finished recording.



The next step involved placing the finished video recording file (highlighted in the Shared Video folder) into the CCExtractor program for extraction of the the closed captioned text file. Note that each video filename contains the channel, the station name, the date, and time that this particular recording was made.

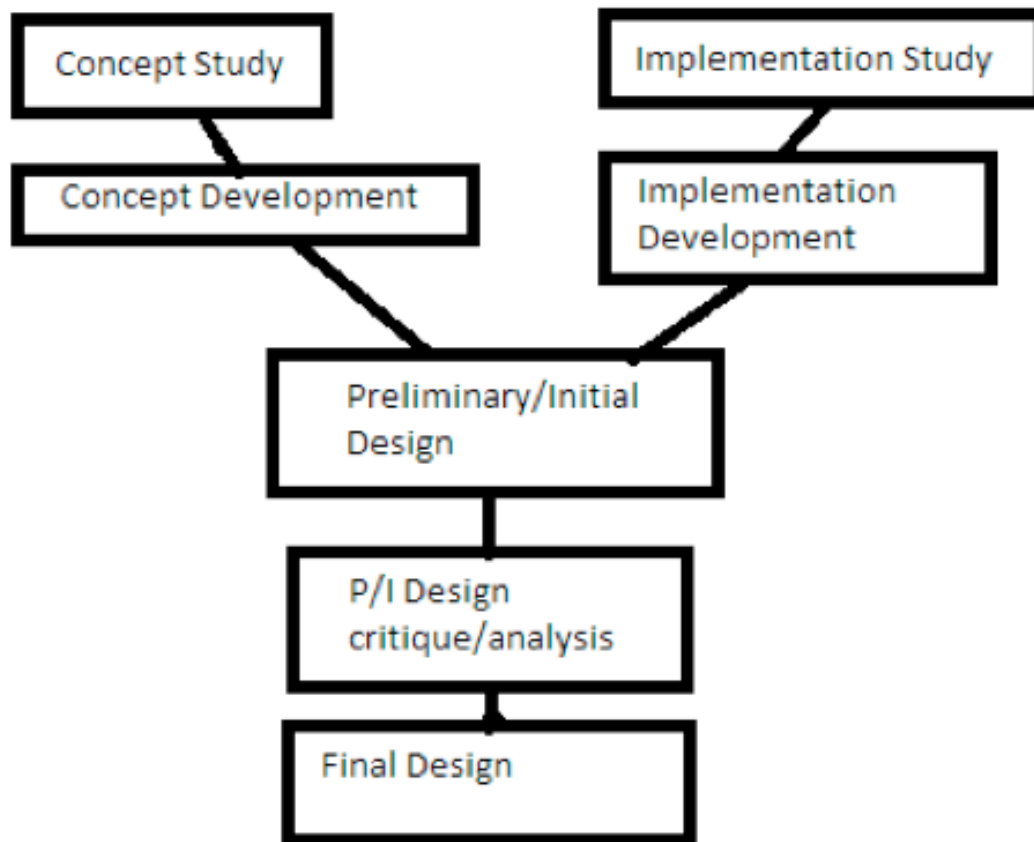


The above diagram displays CCExtractor in progress, extracting the closed captioned text in set time intervals and storing the .srt or .txt file into a preset destination folder.



The picture above shows the Adobe Dreamweaver program used to create the HTML code for the website for our search engine (shown above). Through Dreamweaver we were also able to create the PHP scripts for the database used to archive files and provide results for search queries

Tables/Graphs



Evaluation against the design requirements

A diagram of the 10 phases of the programming that were laid out by Digiclips and these 10 phases are essentially a vague blueprint of how the team approached the solution as a whole. We were able to successfully create a website designed around a search engine using a combination of HTML and PHP coding. Capturing of video and extracting the captioned information was also a success thanks to the HVR 1600. We initially attempted to use the older model Win-TV D Model 697 internal card. This proved to be futile for several reason. First, the board was only able to receive a streaming feed through a combination of a retail antenna and bringing the

desktop PC outside where there were no obstructions. Next, the Win-TV D wasn't able to record files viable for closed caption extraction. Lastly, the Win-TV D used a software encoder rather than a hardware encoder, which would slow down the PC down significantly while converting video files. Once we received the HVR 1600, we progressed much faster through our design. We were able to upload closed captioned text files that could be viewed as search results made based on station, time, keyword (from caption text). In essence, the user would be able to search from something that was spoken about in a video file in the database, and the result would come back as the closed captioned text file/s containing the station, time, or keyword that was searched by the user.

We were not able to implement the radio portion of the design by the deadline of ECE day. This was due to a combination of the difficulty of audio to text generation compared to video to text, and a lack of options that were financially viable within our very small budget. Producing search results in real time also was an obstacle we weren't able to overcome. Having to manually create search results with the captioned text and then manually uploading them to the database adds to the waiting time for the results to be available to the user when they enter a search query.

Tasks and Deliverables

Team Member	Tasks
Jonathan Murphy	SQL Database/User Interface Programming
Christopher Caesar	HVR board video integration
Bryant Beeler	HVR board audio Integration (Audio Mining/ Digital Footprinting)

VII. Conclusion

Digiclips is challenging the Howard University team to come up with a useful and practical solution approach. The group will be able to successfully complete the task and meet all of the requirements by following the 10 Phases of the programming that were laid out by Digiclips and are essentially a vague blueprint to the entire project.

The team was able to also utilize Free Open Source material on the net that can be customized in order to avoid "reinventing the wheel". The Benefit is that the team was able to Expand

programming and hardware knowledge while contributing to the company and solving a real world problem by presenting a practical solution. The timeline was adhered to closely and the team was able to complete the task in its entirety and be ready to present by March 31st 2012, ECE presentation day. The team was successfully able to present and demonstrate the final product to the ECE faculty and guests.

VIII. Recommendations

In future handling with the Radio Television Project, the team has acquired a decent amount of future suggestions for the project. The team would have liked to have used more open source coding in order to avoid “reinventing the wheel” and save time that could be used for other tasks related to the project. Also, the team could have had better information and correspondence management. The handling and relay of information and guidance could have been better maintained and more efficient. This also, could have made the project more efficient as a whole and saved numerous work hours that could have been allocated appropriately.

In terms of the Radio portion of the project, the team suggest that the progress that has already been made be utilized in order to find the one or two missing links that are hindering that branch of the project from becoming operative. The team made noteworthy progress on that branch of the project that could be used in future endeavours in order to finish the work in a timely and convenient fashion.

The team also suggest that further efforts be made to automate the use and communication between the multiple interfaces that were utilized in the project. The group was able to get the multiple interfaces to work in unison, but future work on getting the interfaces to work automatically and without user input would be beneficial to the project as a whole and make the project significantly more user-friendly.

IX. References

1. <http://www.digiclipsinc.com/index.htm>
2. http://www.hauppage.com/site/products/data_hvr2250.html
3. <http://forum.team-mediaportal.com/684620-post8.html>
4. http://wiki.team-mediaportal.com/1_MEDIAPORTAL_1/14_Using_MediaPortal/3_TV/1_Watch_Live_TV/Fullscreen_TV/Actions_Menu/Subtitles

X. Appendixes

A. Final Design Requirement

- Our search engine application will be written in PHP with HTML software language.
- SQL is also to be used in order to import the closed caption with the video/audio data into the SQL relational database.
- The front end web site is to be developed for data to be accessible to users.
- Connection and usage of an HVR board to record and capture live video.
 - A PCI express slot is also required to allow connection for the hardware (namely the HVR board).
 - Access to cable television is also required in order to be able to pull a video signal.
- There aren't any measurement requirements of note to speak of, only preference of the storage size for the database

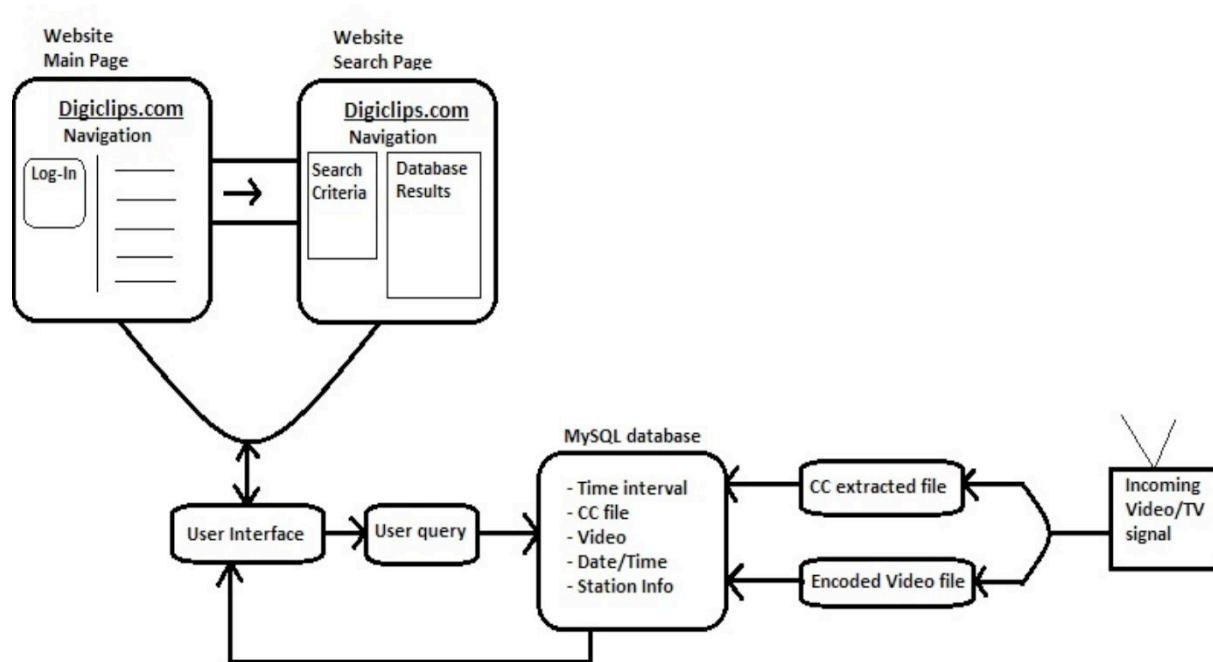
Our milestones/deadlines were as follows:

Initial Proposal	Nov 2011
Initial Design Plan	Nov-Dec 2011
Hardware/Software Research	Dec 2011-Feb 2012
Hardware Acquisitions	Jan 2012-Mar 2012
Webpage/Interface Design	Jan-Feb 2012
Hardware Implementation	Mar 2012-Apr 2012
Interface/Database Implementation	Mar 2012-Apr 2012
Design Troubleshooting	Apr 2012

Cost and Resources

Materials	Prices
PCIe Slot (4GB RAM)	\$399.00
Hauppauge HVR 1600 board	\$90.00
Hauppauge HVR 16 board (SDK)	Open Source
Dell Desktop PC	Donation
Digital TV Cable (Antenna)	\$ 15.00
PHP/.net/SQL Research materials Speech to text software	Open Source
Total	Approx \$505.00

B. Final Design Proposal



C. Source Code Listing (if any)

add_upload.php

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<?php header("Content-type: text/html; charset=utf-8");?>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Submit Recording</title>
<link href="DigiC.css" rel="stylesheet" type="text/css" />
</head>
<body>
<div id="wrapper">
<div id="header">
    <div id="header_logo"></div>
    <div id="header_company"><b>DIGICLIPS, INC. <b><br /><p> PIONEERS IN THE
BROADCAST NEWS MONITORING INDUSTRY</p></div>
    <!-- <div id="header_slogan"><h4>PIONEERS IN THE BROADCAST NEWS
MONITORING INDUSTRY</h4></div> -->
</div>
<div id="navigation"><strong> <center>    HOME|        ABOUT US   |        MARKETS
    |        <a href="add_upload.php">SUBMIT</a> | <a
href="search1_2.php">RETRIEVE</a> |    CONTACT US
</center></strong></div><!-- end avigation-->
<div id="content">
    <div id="left_panel"><br/>

<h3> Submit Recording </h3>
<form action="insert.php" method="post" enctype="multipart/form-data">
    <label>Station Name:</label>
    <input name="StationName" type="text" id="input_stationname" size="25">
    <br/>
    <label>Date of Recording:</label>
    <br /><font size="-1">(YYYY-MM-DD)</font><br/>
    <input name="ClipDate" type="date" id="input_clipdate" size="25" >
    <br/>
    <label>CC_input</label>
    <br />
```

```

        <input name="CCContent" type="text" id="upload_file" size="max" >
        <br/>
<p> Video file: <br/><input type="file" name="VideoContent"></p>
<!-- <input type="hidden" name="MAX_FILE_SIZE" value="1000000">
        <label>Closed Caption File:</label>
                <input type="file" name="file" size="25" /> -->
<!-- <input name="action" type="hidden" id="action" value="add_document"><br/> -->
<input name="Submit" type="submit" onclick="search1_2.php" value="Submit"/>
</form>
</div><!-- end left_panel-->
<div id="midde_panel">
</div><!-- end middle_panel-->
</div><!-- end content-->
<div id="navigation_bottom">

<p><span class="section">About Us:</span>
<a href="">Home</a>      |
<a href="">Company News</a> |
<a href="">Cision History</a> |
<a href="">Client Testimonials</a> |
<a href="">Locations</a> |
<a href="">Partnerships</a> |
<a href="">Management Team</a>
<br />
<span class="section">Products & Services:</span>
<a href="">CisionPoint</a> |
<a href="">Media Database</a> |
<a href="">Press Release Distribution</a> |
<a href="">Media Monitoring</a> |
<a href="">Media Analysis</a>
<br />
<span class="section">Resources:</span>
<a href="">PR White Papers</a> |
<a href="">Events</a> |
<a href="">Webinars</a> |
<a href="">College & University Program</a>
<br />
<span class="section">Cision Sites:</span>
<a href="">Cision Blog</a> |
<a href="">Cision Navigator</a> |

```



```

<a href="">Journalist Tweets</a> |
<a href="">CisionWire</a>
</p>
</div>
<div align="center">
  <!--End navigation_bottom-->
</div>
<div id="copyright">
  <div align="center">DigiClips, Inc. is not responsible and cannot be held liable for loss of
magazines, newspapers, broadcast or any other published information resulting from human
error, equipment failure, Acts of God, bad tapes, transcription error through Closed Captioning
or changes in broadcast time due to special events. Material supplied by DigiClips, Inc. may be
used for file and reference, internal review, analysis or research only. Any editing, reproduction,
rebroadcasting or public display is strictly forbidden. DigiClips, Inc. news segment summaries
are derived from off-air recordings, news papers, magazines, periodicals and DigiClips, Inc. is
not responsible for the content. DigiClips, Inc. is acting in your behalf as your agent to record
Radio and Television programming and to clip news paper, magazine and other periodicals for
you and your organization.</div>
</div>
<div align="center">
  <!--copyright-->
</div>
</div><!--wrapper-->
<!--name="upload_form" id="upload_form"-->
</body>
</html>

```

DigiC.css

```

#wrapper {
  height: auto;
  width: 800px;
  margin-right: auto;
  margin-left: auto;
}
#wrapper #header {
  border-bottom-color: #000;
  width: 800px;
  margin-right: auto;
  margin-left: auto;
  text-align: center;
}

```

```

        height: 150px;
    }
    #wrapper #header #header_logo {
        float: left;
        height: 135px;
        width: 150px;
    }
    #wrapper #header #header_company {
        float: right;
        height: 85px;
        width: 649px;
        font-size: 18px;
        margin-top: 50px;
    }
    #wrapper #header #header_slogan {
        clear: both;
        height: 50px;
        width: 800px;
    }
    #wrapper #navigation strong center {
        clear: both;
        height: 35px;
        width: 800px;
        border-top-width: thin;
        border-bottom-width: thin;
        border-top-style: solid;
        border-bottom-style: solid;
        border-top-color: #000;
        border-bottom-color: #000;
        text-align: center;
        vertical-align: middle;
        padding-top: 20px;
        background-color: #7996DE;
    }
    #wrapper #copyright {
        font-size: 10.5px;
        height: auto;
        width: auto;
        padding-top: 50px;
    }
}

```

```

#wrapper #content {
    height: auto;
    width: 800px;
}
#wrapper #content #left_panel {
    float: left;
    height: 300px;
    width: 200px;
    margin-top: 5px;
    padding-top: 5px;
}
#wrapper #content #midde_panel {
    float: left;
    height: auto;
    width: 500px;
    margin-top: 5px;
    text-align: justify;
    margin-left: 20px;
    padding-top: 5px;
    padding-right: 5px;
    padding-bottom: 5px;
    padding-left: 20px;
    border-left-width: thin;
    border-left-style: solid;
    border-left-color: #000;
}
#wrapper #navigation_bottom {
    clear: both;
    height: 100px;
    width: 800px;
    border-top-width: thin;
    border-top-style: dotted;
}
.section {
    font-size: 16px;
    line-height: normal;
    font-weight: bold;
}

```

insert.php

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Processing</title>
<link href="DigiC_insert.css" rel="stylesheet" type="text/css" />
</head>
<!------->
<body>

<div id="wrapper">

<div id="header">
    <div id="header_logo"></div>
    <div id="header_company"><b>DIGICLIPS, INC. <b><br /><p> PIONEERS IN THE
BROADCAST NEWS MONITORING INDUSTRY</p></div>
    <!-- <div id="header_slogan"><h4>PIONEERS IN THE BROADCAST NEWS
MONITORING INDUSTRY</h4></div> -->
</div>
<div id="navigation"><strong> <center>    HOME|        ABOUT US    |        MARKETS
    |        <a href="add_upload.php">SUBMIT</a> | <a
href="search1_2.php">RETRIEVE</a> |    CONTACT US
</center></strong></div><!-- end Navigation-->

<div id="content">
    <div id="left_panel"><br/>
    </div><!-- end left_panel-->
<div id="midde_panel">
<p><?php

# Type="MYSQL"
# HTTP="true"
define('db_name','seniorproject');
define('db_user','root');
define('db_pass','howardu');
define('db_host','localhost');
```

```

//$mysql_con = mysqli_connect($db_host, $db_user, $db_pass, $db_name) or die ("could not
connect to mysql");
$link_digi_file = mysql_connect(db_host, db_user, db_pass);
if (!$link_digi_file)
{
    die('Could not connect: ' . mysql_error());
}
$db_selected = mysql_select_db(db_name, $link_digi_file);

if (!$db_selected)
{
    die('Error: ' . mysql_error());
}
//echo "1 record added";
$stationnameVALUE = $_POST['StationName'];
$clipdateVALUE = $_POST['ClipDate'];
$fileccVALUE = $_POST['CCContent'];
$videoVALUE = mysql_real_escape_string($_POST['VideoContent']);
$sql="INSERT INTO dcstations (StaionName, ClipDate, CCContent,VideoContent)
VALUES('$stationnameVALUE','$clipdateVALUE','$fileccVALUE', '$videoVALUE')";

if (!mysql_query($sql,$link_digi_file))
{
    die('Error: ' . mysql_error());
}
echo "<br/><br/><h2>1 record added</h2>";
?></p>
</div><!-- end middle_panel-->
</div><!-- end content-->
<div id="navigation_bottom">
<p>
<span class="section">About Us:</span>
<a href="">Home</a> |
<a href="">Company News</a> |
<a href="">Cision History</a> |
<a href="">Client Testimonials</a> |
<a href="">Locations</a> |
<a href="">Partnerships</a> |
<a href="">Management Team</a>
<br />

```

```

<span class="section">Products & Services:</span>
<a href="">CisionPoint</a> |
<a href="">Media Database</a> |
<a href="">Press Release Distribution</a> |
<a href="">Media Monitoring</a> |
<a href="">Media Analysis</a>
<br />
<span class="section">Resources:</span>
<a href="">PR White Papers</a> |
<a href="">Events</a> |
<a href="">Webinars</a> |
<a href="">College & University Program</a>
<br />
<span class="section">Cision Sites:</span>
<a href="">Cision Blog</a> |
<a href="">Cision Navigator</a> |
<a href="">Journalist Tweets</a> |
<a href="">CisionWire</a>
</p>
</div>
<div align="center">
  <!--End navigation_bottom-->
</div>
<div id="copyright">
  <div align="center">DigiClips, Inc. is not responsible and cannot be held liable for loss of
magazines, newspapers, broadcast or any other published information resulting from human
error, equipment failure, Acts of God, bad tapes, transcription error through Closed Captioning
or changes in broadcast time due to special events. Material supplied by DigiClips, Inc. may be
used for file and reference, internal review, analysis or research only. Any editing, reproduction,
rebroadcasting or public display is strictly forbidden. DigiClips, Inc. news segment summaries
are derived from off-air recordings, news papers, magazines, periodicals and DigiClips, Inc. is
not responsible for the content. DigiClips, Inc. is acting in your behalf as your agent to record
Radio and Television programming and to clip news paper, magazine and other periodicals for
you and your organization.</div>
</div>
<div align="center">
  <!--copyright-->
</div>
</div><!--wrapper-->
</body>

```

```
</body>
</html>
```

DigiC_insert.php

```
#wrapper {
    height: auto;
    width: 800px;
    margin-right: auto;
    margin-left: auto;
}
#wrapper #header {
    border-bottom-color: #000;
    width: 800px;
    margin-right: auto;
    margin-left: auto;
    text-align: center;
    height: 150px;
}
#wrapper #header #header_logo {
    float: left;
    height: 135px;
    width: 150px;
}
#wrapper #header #header_company {
    float: right;
    height: 85px;
    width: 649px;
    font-size: 18px;
    margin-top: 50px;
}
#wrapper #header #header_slogan {
    clear: both;
    height: 50px;
    width: 800px;
}
#wrapper #navigation strong center {
    clear: both;
    height: 35px;
    width: 800px;
    border-top-width: thin;
```

```

        border-bottom-width: thin;
        border-top-style: solid;
        border-bottom-style: solid;
        border-top-color: #000;
        border-bottom-color: #000;
        text-align: center;
        vertical-align: middle;
        padding-top: 20px;
        background-color: #7996DE;
    }
    #wrapper #copyright {
        font-size: 10.5px;
        height: auto;
        width: auto;
        padding-top: 50px;
    }
    #wrapper #content {
        height: auto;
        width: 800px;
    }
    #wrapper #content #left_panel {
        float: left;
        height: auto;
        width: 200px;
        margin-top: 5px;
        padding-top: 5px;
    }
    #wrapper #content #midde_panel {
        float: left;
        height: 300px;
        width: 500px;
        margin-top: 5px;
        text-align: justify;
        margin-left: 20px;
        padding-top: 5px;
        padding-right: 5px;
        padding-bottom: 5px;
        padding-left: 20px;
        border-left-width: thin;
        border-left-style: solid;

```



```

        border-left-color: #000;
    }
    #wrapper #navigation_bottom {
        clear: both;
        height: 100px;
        width: 800px;
        border-top-width: thin;
        border-top-style: dotted;
    }
    .section {
        font-size: 16px;
        line-height: normal;
        font-weight: bold;
    }

```

search1_2.php

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<!-- creating table preferences (CCS) -->
<title>Search Databases</title>
<link href="DigiC_search.css" rel="stylesheet" type="text/css" />
<style type="text/css">

```

```

table{ background-color: #FCF;
}
    th {    width: 150px;
           text-align:left; }
#station_form {
    height: auto;
    width: auto;
    float: left;
}
#results_table {
    float: left;
    height: auto;
    width: auto;
}

```

```

#newrecord_form {
    float: left;
    height: auto;
    width: 200px;
    clear: both;
}
</style>
</head>
<!------->
<body>
<div id="wrapper">
<div id="header">
<div id="header_logo"></div>
    <div id="header_company"><b>DIGICLIPS, INC. <b><br /><p> PIONEERS IN THE
BROADCAST NEWS MONITORING INDUSTRY</p></div>
    <!-- <div id="header_slogan"><h4>PIONEERS IN THE BROADCAST NEWS
MONITORING INDUSTRY</h4></div> -->
</div>
<div id="navigation"><strong> <center>    HOME|        ABOUT US    |        MARKETS
    |        <a href="add_upload.php">SUBMIT</a> | <a
href="search1_2.php">RETRIEVE</a> |    CONTACT US
</center></strong></div><!-- end avigation-->

<div id="content">
    <div id="left_panel"><br/>
<div id="station_form">
<!-- Form for getting query(Closed Caption) wanted from user-->
<h3> Search Stations </h3>
<form method="post" action="search1_2.php">
<input type="hidden" name="submitted" value="true"/>
<br/>

<label> Search Category:
<select name="category">
    <option value="ID">ID</option>
    ><option value="StationName">Station Name</option> <!--comment_id -->
    <option value="ClipDate">Recorded Date</option><!-- first_name -->
    <option value="CCContent">Closed Caption</option><!-- comment -->
    <option value="VideoContent">Closed Caption</option><!-- comment -->

```

```

</select><br/>
</label>
<label> Search Criteria: <input type="text" name="criteria" /></label>

<input type="submit" /><hr/>
</form>
</div> <!-- end station_form div-->
</div><!-- end left_panel-->
<div id="midde_panel">
<p><div id="results_table">

<!-- <option value="stationname">Station Name</option> <!--comment_id -->
<!-- <option value="clipdate">Date of Recording</option><!-- first_name -->
<!-- <option value="closedc">Closed Caption</option><!-- comment -->
<?php // what happens when the submit button is pushed -->
// function to make sure query form has a submission
if(isset($_POST['submitted'])) {
    //connect to database
    include('connect_2.php');
    //initialize search query variable (What we are looking in the database for).
$category = $_POST['category']; //specify collumn
$criteria = $_POST['criteria']; // specify which records to print from this CC.

//What collums are we pulling once we find the (closed caption) search query
$query = "SELECT * FROM dcstations WHERE $category like '%$criteria%'";

// declaration of the variable used for holding the results
$result = mysqli_query($mysqli_con, $query) or die('error getting data');

echo "<table>";
echo "<tr><th>ID</th><th>Station Name</th><th>Date Recorded</th><th>Closed
Caption</th></tr>";

while ($row = mysqli_fetch_array($result, MYSQLI_ASSOC)) {
    echo "<tr><td>";
    echo $row['ID'];
    echo "</td><td>";
    echo $row['StationName'];
    echo "</td><td>";
    echo $row['ClipDate'];
}

```

```

        echo "</td><td>";
        echo $row['CCContent'];
        echo "</td><td>";
        echo $row['VideoContent'];

        echo "</td><tr>";
    }
    echo "</table>";
    echo "<br />End of Searches in database";
} //end of main if statement
?>
</div> <!-- end results_table div-->
</p>
</div><!-- end middle_panel-->
</div><!-- end content-->
<div id="navigation_bottom">
<p>
<span class="section">About Us:</span>
<a href="">Home</a> |
<a href="">Company News</a> |
<a href="">Cision History</a> |
<a href="">Client Testimonials</a> |
<a href="">Locations</a> |
<a href="">Partnerships</a> |
<a href="">Management Team</a>
<br />
<span class="section">Products & Services:</span>
<a href="">CisionPoint</a> |
<a href="">Media Database</a> |
<a href="">Press Release Distribution</a> |
<a href="">Media Monitoring</a> |
<a href="">Media Analysis</a>
<br />
<span class="section">Resources:</span>
<a href="">PR White Papers</a> |
<a href="">Events</a> |
<a href="">Webinars</a> |
<a href="">College & University Program</a>
<br />
<span class="section">Cision Sites:</span>

```

```

<a href="">Cision Blog</a> |
<a href="">Cision Navigator</a> |
<a href="">Journalist Tweets</a> |
<a href="">CisionWire</a>
</p>
</div>
<div align="center">
  <!--End navigation_bottom-->
</div>
<div id="copyright">
  <div align="center">DigiClips, Inc. is not responsible and cannot be held liable for loss of
magazines, newspapers, broadcast or any other published information resulting from human
error, equipment failure, Acts of God, bad tapes, transcription error through Closed Captioning
or changes in broadcast time due to special events. Material supplied by DigiClips, Inc. may be
used for file and reference, internal review, analysis or research only. Any editing, reproduction,
rebroadcasting or public display is strictly forbidden. DigiClips, Inc. news segment summaries
are derived from off-air recordings, news papers, magazines, periodicals and DigiClips, Inc. is
not responsible for the content. DigiClips, Inc. is acting in your behalf as your agent to record
Radio and Television programming and to clip news paper, magazine and other periodicals for
you and your organization.</div>
</div>
<div align="center">
  <!--copyright-->
</div>
</div><!--wrapper-->
</body>
</html>

```

DigiC_search.php

```

#wrapper {
    height: auto;
    width: 800px;
    margin-right: auto;
    margin-left: auto;
}
#wrapper #header {
    border-bottom-color: #000;
    width: 800px;
    margin-right: auto;
    margin-left: auto;
}

```

```

        text-align: center;
        height: 150px;
    }
    #wrapper #header #header_logo {
        float: left;
        height: 135px;
        width: 150px;
    }
    #wrapper #header #header_company {
        float: right;
        height: 85px;
        width: 649px;
        font-size: 18px;
        margin-top: 50px;
    }
    #wrapper #header #header_slogan {
        clear: both;
        height: 50px;
        width: 800px;
    }
    #wrapper #navigation strong center {
        clear: both;
        height: 35px;
        width: 800px;
        border-top-width: thin;
        border-bottom-width: thin;
        border-top-style: solid;
        border-bottom-style: solid;
        border-top-color: #000;
        border-bottom-color: #000;
        text-align: center;
        vertical-align: middle;
        padding-top: 20px;
        background-color: #7996DE;
    }
    #wrapper #copyright {
        font-size: 10.5px;
        height: auto;
        width: auto;
        padding-top: 50px;
    }

```

```

}

#wrapper #content {
    height: auto;
    width: 800px;
}
#wrapper #content #left_panel {
    float: left;
    height: 300px;
    width: 198px;
    margin-top: 5px;
    padding-top: 5px;
}
#wrapper #content #midde_panel {
    float: left;
    height: auto;
    width: 578px;
    margin-top: 5px;
    text-align: justify;
    margin-left: 20px;
    padding-top: 5px;
    padding-bottom: 5px;
    border-left-width: thin;
    border-left-style: solid;
    border-left-color: #000;
}
#wrapper #navigation_bottom {
    clear: both;
    height: 100px;
    width: 800px;
    border-top-width: thin;
    border-top-style: dotted;
}
.section {
    font-size: 16px;
    line-height: normal;
    font-weight: bold;
}

```

Connect_2.php

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Connecting</title>
  <?php
# Type="MYSQL"
# HTTP="true"
$db_host = "localhost";
$db_name = "seniorproject";
$db_user = "root";
$db_pass = "howardu";

$mysql_con = mysqli_connect($db_host, $db_user, $db_pass, $db_name) or die ("could not
connect to mysql");
//@mysql_select_db("$db_name") or die ("no database");
?>
</head>
<body>
</body>
</html>

```

Resumes: Attached