PROJECT PLAN DOCUMENTATION

1. EXECUTIVE SUMMARY

The project at hand, which is A Secured Stream or Video Authentication, stands to give a definitive set of tasks for the team undertaking it. It is therefore very essential for our team to be on the best possible position to come out with working software that would be seen in the world of Information Technology (IT), for its ability to secure and make streams or video files authentic. With this, we have in here a full documentation as the preliminary technical manual for the proposed project; detailing the technical design used to portray the architecture, components, modules of the system based on its functions and how they interact. This part is of the documentation; preliminary technical manual is designed with the content of a project plan, analysis plan, design plan, the team's individual tasks and a Gantt Chat for the entire project schedule. It therefore provides insight, and thoughts about the entire implementation of the software. This documentation is aimed diagrammatically to show the system relationship and interaction, how each component is implemented and interacts with each other to meet the specific goals of the functional software. Modeling diagrams are involved to explain the relationship between different processes and their flow pattern. These modeling diagrams are designed to show the activities that could be performed, the sequence workflow of processes, sequence of data processing, states of nodes and their processes and the interactions between the different components in the software.

2. INTRODUCTION

The absence of media player in computer systems questions the relevance of the whole system. This has made it a must include feature in computers; being it desktop, laptop, palmtop, notebook etc. with the higher growing of businesses and technological advancement, media player software has become very vital. It supports advertisements through both videos and audios on the computer. Besides its commercial purposes, it serves as the sole channel for entertainment such as movies and music. Our team is therefore embarking on this project to provide a standard player with secured file. The altering of video files has become a common activity in the Artificial Intelligence (IT) world. This has led to most streams or videos being not authentic as they ought to be. With such a secured player, the problem of altering streams or videos would be solved. In addition to that, the create player will have the ability to convert a particular file from one format to another. The proposed software would be created as a standalone application. It can therefore be installed on windows platform. The team has therefore come out the preliminary Technical Manual for the documentation as part of the proposed software development. This involves the detail explanation of the system, the design criteria used in the development of the system and use of modeling tools in developing the relationship and sequence of activities that takes place among the components in the software. The brief overview of this documentation is to explain the requirements and functionalities of the system to an internal assessor. This technical design also provide a Graphical user interface for the software, it demonstrate the architecture and interactive nature of different interfaces that allows users to interact with the software. In this technical design, we have developed and analyzed some modeling diagrams that are relevant or that suite our system, these include, Use case diagram, Activity diagram, State diagram and class and sequence diagrams.

By the end of this documentation the external assessor will be able to understand the full requirements and functionalities of the proposed software application, component interaction and how the team was able to make use of some UML diagrams that accurately shows the system design.

3. PROJECT OBJECTIVE

The proposed project; Secure Stream (or Video) Authentication requires a player for its implementation. However, there are a number of varieties of media players in the market. It could be in a way that supports a particular format but cannot convert to another format. The proposed project aims at solving such problem of converting video file from one format to another. The user does not need to change the file to be played format. The software does that by itself. Its uniqueness comes as a result of the security implementation which is hard to find out there. It will make all videos played on it keep its authentication. A smart detection of any altered video would be displayed for the user to know that that video is no more authentic.

4. PROJECT SCOPE

The proposed project's widest scope comprises of the creation of a media player that performs some specific functions. The functions are: first of all, the player should be in particular format. It should be able to convert the file or video being played into another format. Secondly; any video being played should be secured. This will call for the introduction of digital security implementation. Finally the software will give a signal or a message that shows that the video being played is no more authentic. The project will further allow users to apply a subtitle or add or remove a couple of frames from the stream, and it will lead to a correct detection.

5. METHODOLOGY

The project development methodology to be used in this Project is the Rational Unified Process (RUP). The process comes in four different phases; namely the Inception phase, Elaboration phase, Construction phase and the Transition phase. The project is implemented in respective of the order of the phases.

5.1. INCEPTION PHASE

The Inception Phase of the Project will have the following activities and outcome:

- Project scope
- Architecture requirements
- Project plan
- Project diary
- Analysis
- Initial design

5.2. ELABORATION PHASE

At this stage, the activities and outcomes expected are:

- Deploying the Architecture drawn
- Detailed analysis and requirements met
- Iteration plans as a guide during the software construction
- User manual.
- Technical manual
- Understanding validation and verification before the construction begins

5.3. CONSTRUCTION PHASE

In the construction phase of the project, the following deliverables are to be delivered before the final phase:

- The development of the project begins here with the coding.
- Testing components begin in this phase as the coding starts.
- Testing is performed to avoid bugs and errors.
- The iteration process to check to see that we are on track to achieve the goals is checked.
- The user manual is updated due to the changes made.
- The technical manual is updated as well due to the changes made.
- The deployment plan of the project is implemented.

5.4. TRANSITION PHASE

In the transition phase, the following processes are undertaken:

- The software is tested to ensure that various deliverables are in place in stakeholder's environment.
- The project diary showing the truck of the project is delivered.
- The final user manual is completed and released.
- Final documentation of the entire project is released as well.
- The final product is then released after all deliverables are met.

6. PROJECT SCHEDULE

The project is expected to last for duration of eight months. It would be divided into two parts or two sections which the first section is to be completed by August 2010. The final and the second part are to be completed on April 2010. A Gantt Chat for the various schedules of the first section can be seen at the appendix.

7. DELIVERABLES

The written documents which would be delivered as the sole governing documents for the entire development of the project are as follows:

- Project plan
- Project Diary
- Preliminary user manual
- Preliminary technical manual
- Final User manual
- Final Technical manual
- The software code
- The project prototype
- The project Website

8. TEST PLAN

8.1. BLACK BOX TESTING

Black box testing is performed without considering the knowledge of the main design or the code of the software project. Rather it focuses on testing the basic requirements and the functionalities of various aspects of the developed software.

8.2.WHITE BOX TESTING

White box testing process is mainly carried out by software developers or people who have the knowledge in the field of coding or programming.

9. SYSTEM ANALYSIS PLAN

Under the analysis plan the Unified Model Languages (UML) would be implemented.

- Use Case Diagram.
- Class Diagram
- Activity Diagram.
- Sequence Diagram
- State Diagram.

10. SYSTEM DESIGN PLAN

The System Design will be expressed using Software preliminary User Interface and labels to help in the explanation of the various functions. The interface as well would also be implemented using the Unified Modeling Language diagrams described in the system analysis phase.

11. RISK MANAGEMENT

Since the project is to last for a longer period of time, some unexpected incidences are bound to occur in the cause of the entire project. Risk management plan is therefore to be considered and taken seriously. For instance, there could be a problem with the hardware which could be used for the project development. It could be an issue with the group members; where one wants to dropout.

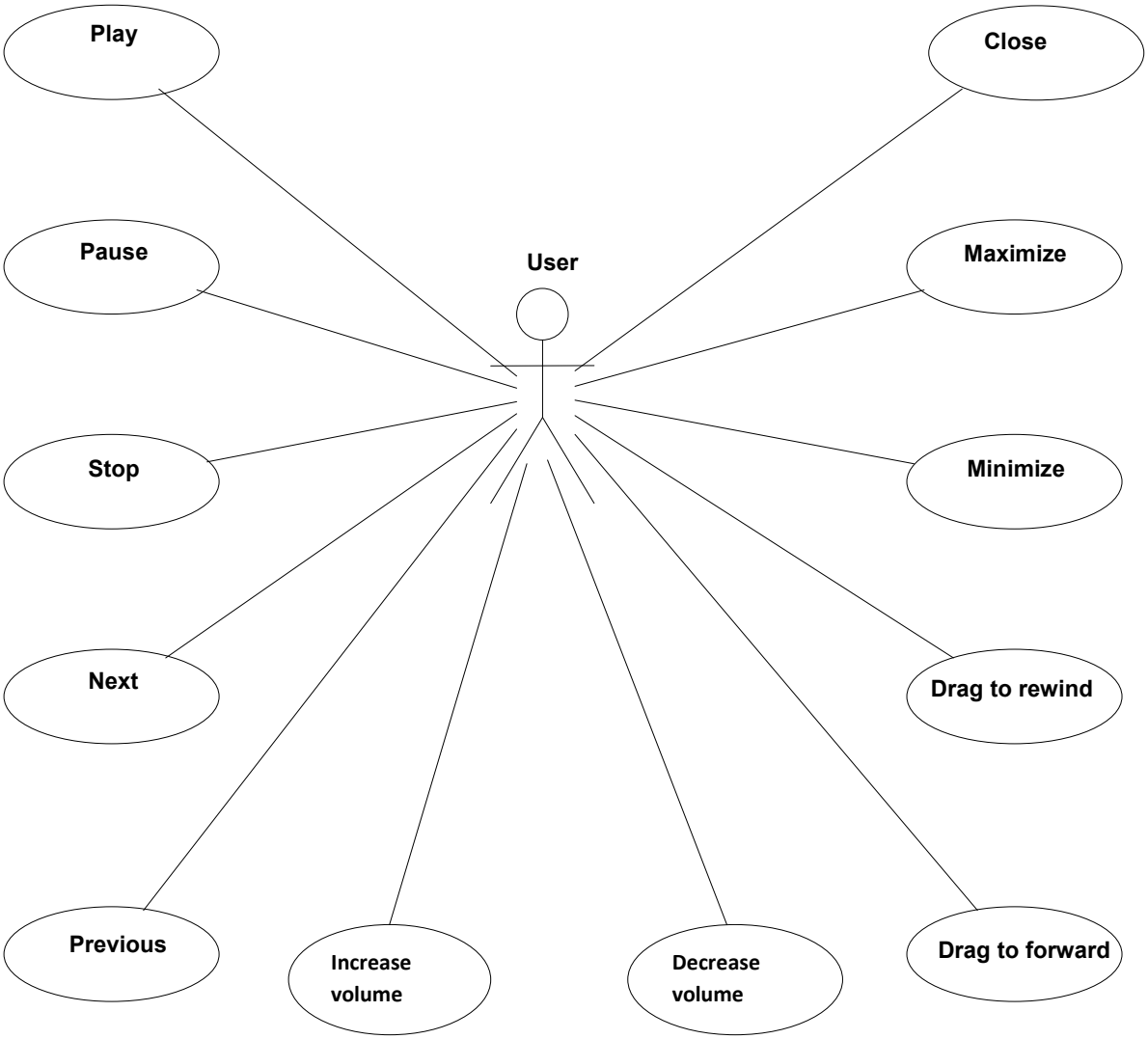
11.1. MEETING REGULALY

Regular meetings would be held at least two times a week. However, emergency meetings could be held when necessary. This will help to control the entire project and to enforce risk management.

ANALYSIS PHASE DOCUMENTATION

12. ANALYSIS PHASE DOCUMENTATION

12.1. USE CASE DIAGRAM FOR THE ACTION BUTTONS



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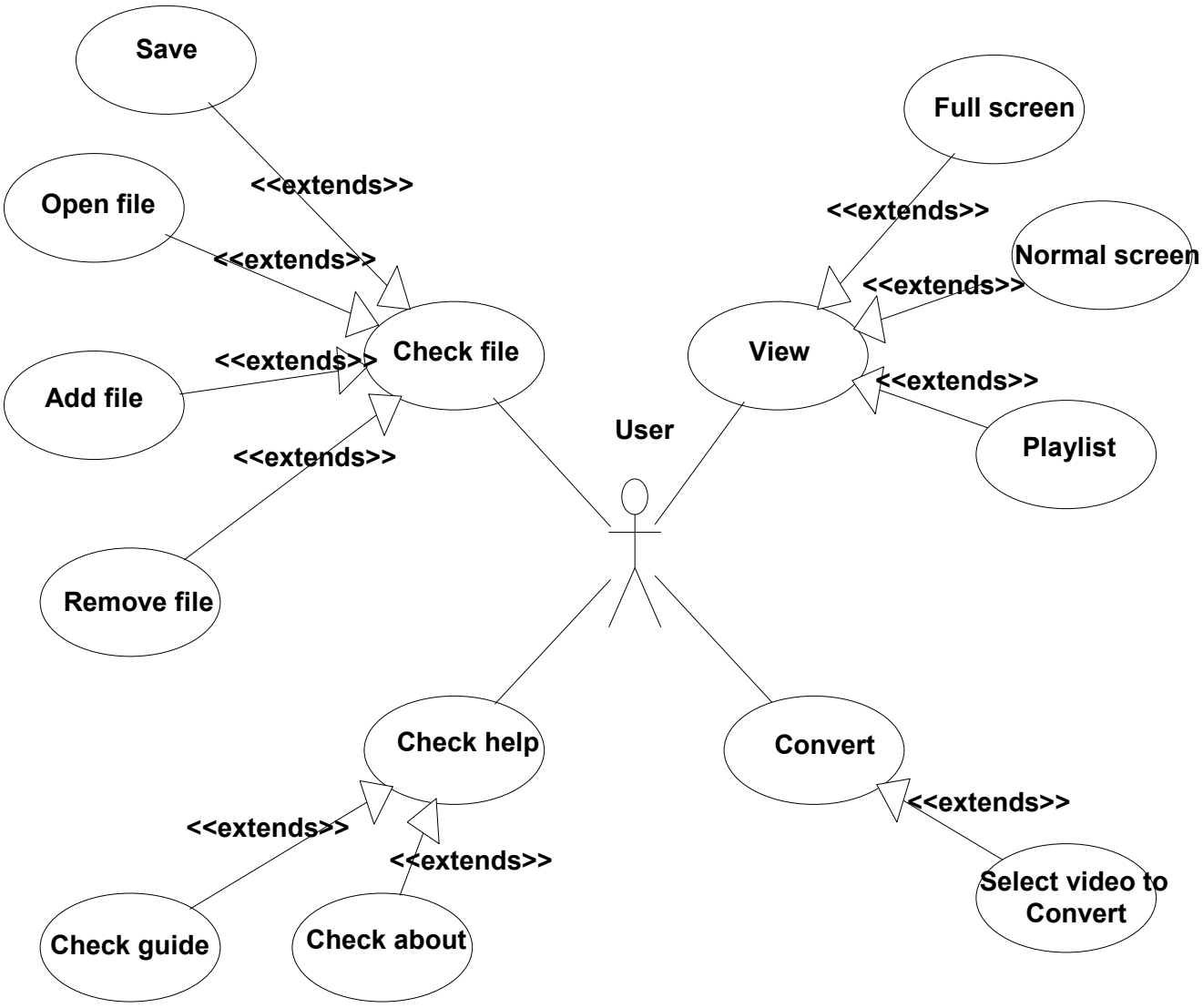
12.2. USE CASE DIAGRAM FOR THE MENU BUTTON WITH EXTENDS



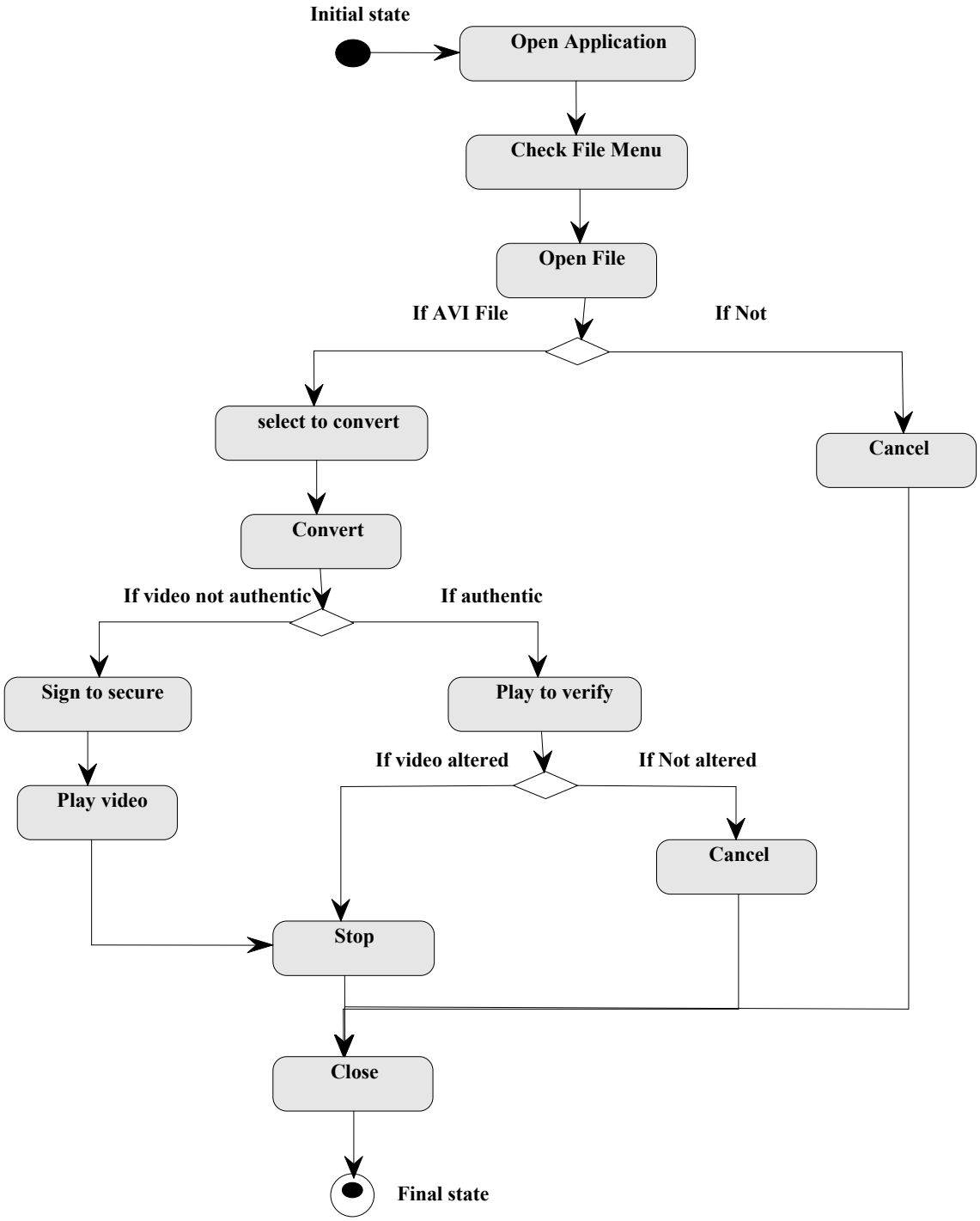
The above use cases diagram depicts the major functionalities of the entire software application. There is one major actor which is the user. The diagram demonstrate twenty two use cases with nine of them being an extend use case

13. USECASE DESCRIPTION

NAMES OF USECASES	DESCRIPTION
Actor	The main user that does controls the software application
Play	Play allows the user to watch a video file
Stop	Stop helps the user to quit the file or video being played
Pause	Allows the user to stop the video being played at a point and can resume later on from the same point as it stopped
Next	Next allows the user to move on to another video
Previous	Previous is for the user to rewind to a video which was played earlier
File	The file allows the user to see some functions under it, which are; open file, add file, remove file and save
Open File	It allows the user to open and select from a list of video files to play
Add File	Add file allows the user to increase the number of video files to the playlist
Remove File	The user uses it to delete a video file from a playlist or folder
Save	The user uses to save in a playlist or folder
View	View button allows the user check the items on the view menu. The view menu has the full screen, normal and the playlist links
Full Screen	The user can view the video in a full screen just as the entire size of the computer screen
Normal	Normal screen is for the user to view the video in its default form, when it is fist opened
Playlist	Playlist allows the user to view the list of all video files that are ready to be played
Convert	Allows the user to convert a particular video from one format to another (AVI – MPEG)
Select File To Convert	The user selects the preferred video file to convert

Help	Help button allows user to chose from a link that talks about the guide to use the product and facts about the product
Guide To Use	It's a link the gives the step by step guide to how the product is used
About…	About helps the user to check about the product
Minimize	The user can minimize the software application from the screen
Maximize	The software application can also be restored in a maximum mode or to enlarge to full screen using this button
Close	The entire software application can be closed with this button

14. ACTIVITY DIAGRAM



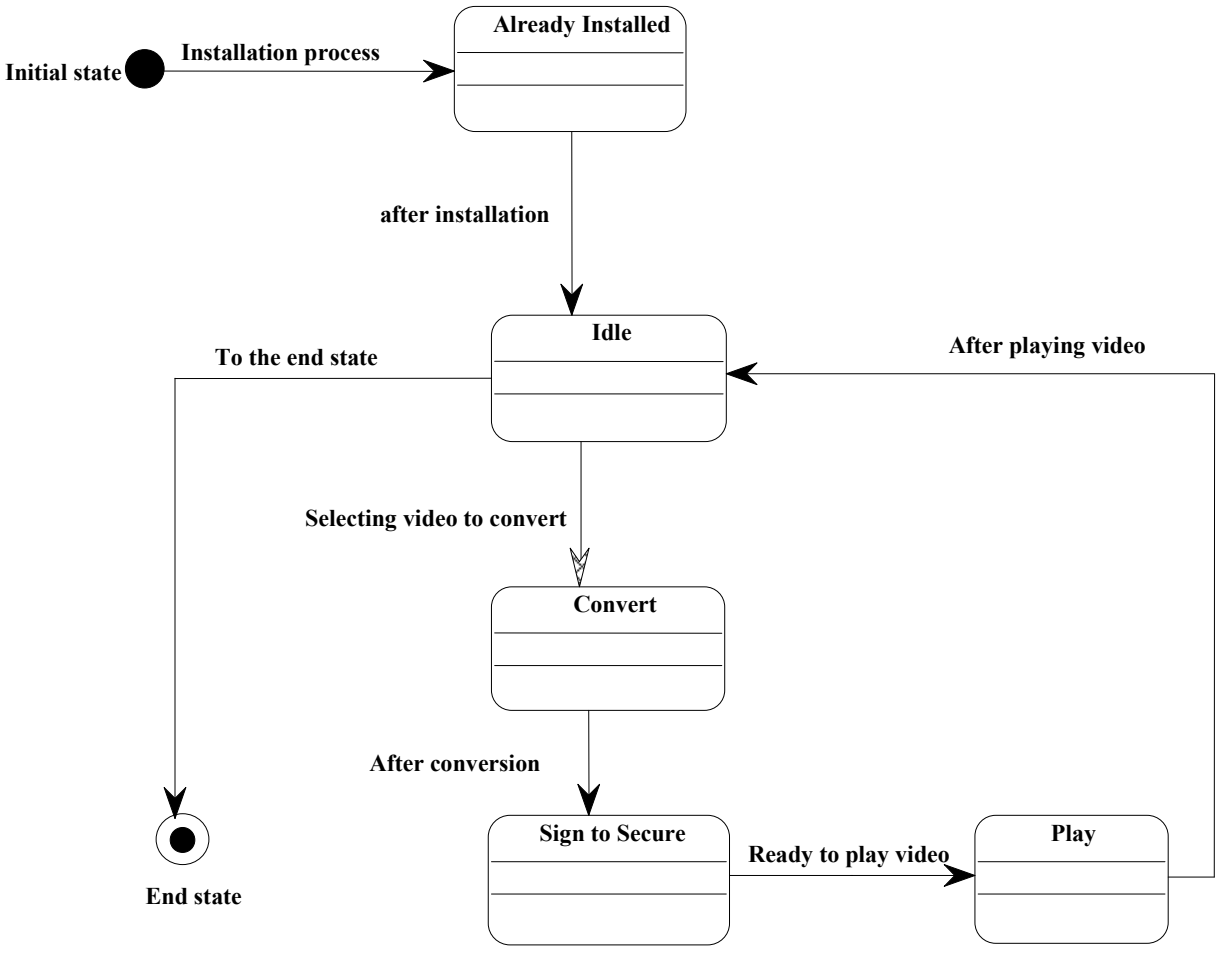
The activity diagram shows the sequence of actions or activities of the software application. It depicts the whole process from the initial stage to the final stage.

15. ACTIVITY DIAGRAM DESCRIPTION

NAMES OF NODES	DESCRIPTION
Initial stage	Shows the starting stage of the main actions or activities of the software
Open Application	The first activity to be taken if user want to use the software
Check File	This is to check the file button for other functions
Open file	Open file allows the user to see the video files to be played.
Decision – If AVI or Not	A decision can be made before user precedes.
Select to convert	If the file is an AVI file the user can select to convert it.
Cancel	If the file is not and AVI the Cancel is used to terminate the whole process since nothing can be done.
Convert	After select to convert, then user can convert from there.
Decision – if video authentic or not	A decision can be made for making video authentic.
Sign to Secure	Allows the user to sign to secure the video to retain its authenticity.
Play to verify	Play to verify allows user to play the video to check if it is authentic.
Play	Play is for the user to play the video after it is signed secured.
Decision – if video is altered or not	User makes a decision if video is altered or not.
Cancel	This cancels the video if it is not altered.
Stop	If video is altered the user stops it and may perform any other action. When it is signed and finished playing it can be stopped as well.

Close	Close allows the user to exit the entire software application.
Final state	This is the last state of the whole activity.

16. STATE DIAGRAM

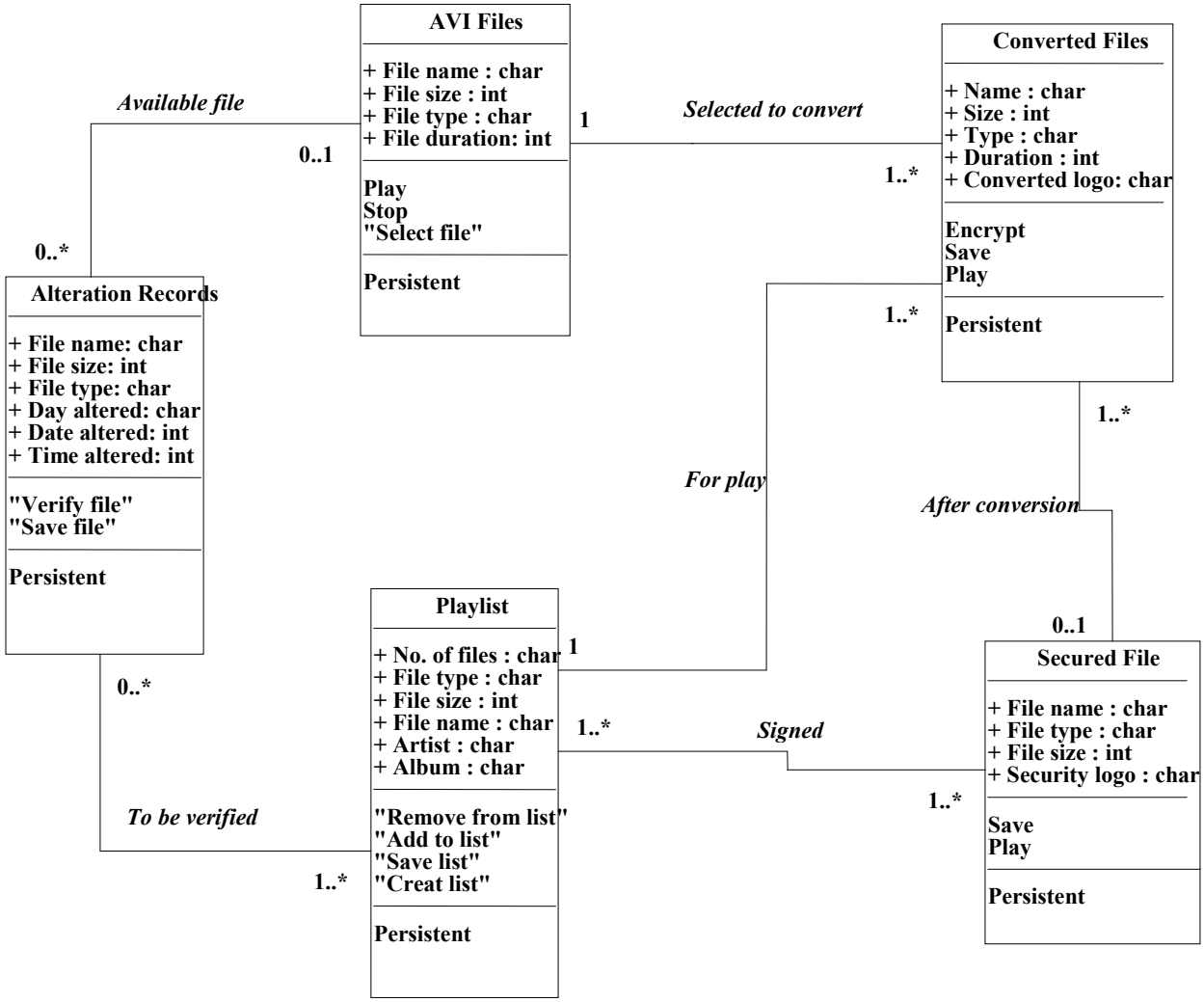


The state diagram is used in the proposed project to depict the various models of the entire software application in its state form. It shows the stage to stage state of the project.

17. STATE DIAGRAM DESCRIPTION

NAMES OF NODES	DESCRIPTION
Initial state	Shows the starting stage of the main actions or activities of the software
Installed state	This is the first state of the software application after it has been developed and installed on a computer system.
Idle state	In this state the software is not yet in use, it stays idle
Convert	This is the conversion state where a selected video file is converted from AVI - MPEG
Sign to secure	In this state, the user signs the video being converted to secure it and make it authentic
Play	The video file can be is in the state of playing after the conversion and the authenticity.
Idle	After play the software returns to its idle state, since it's no more active.
End state	This is the end state of the software when it is not in use.

18. CLASS DIAGRAM

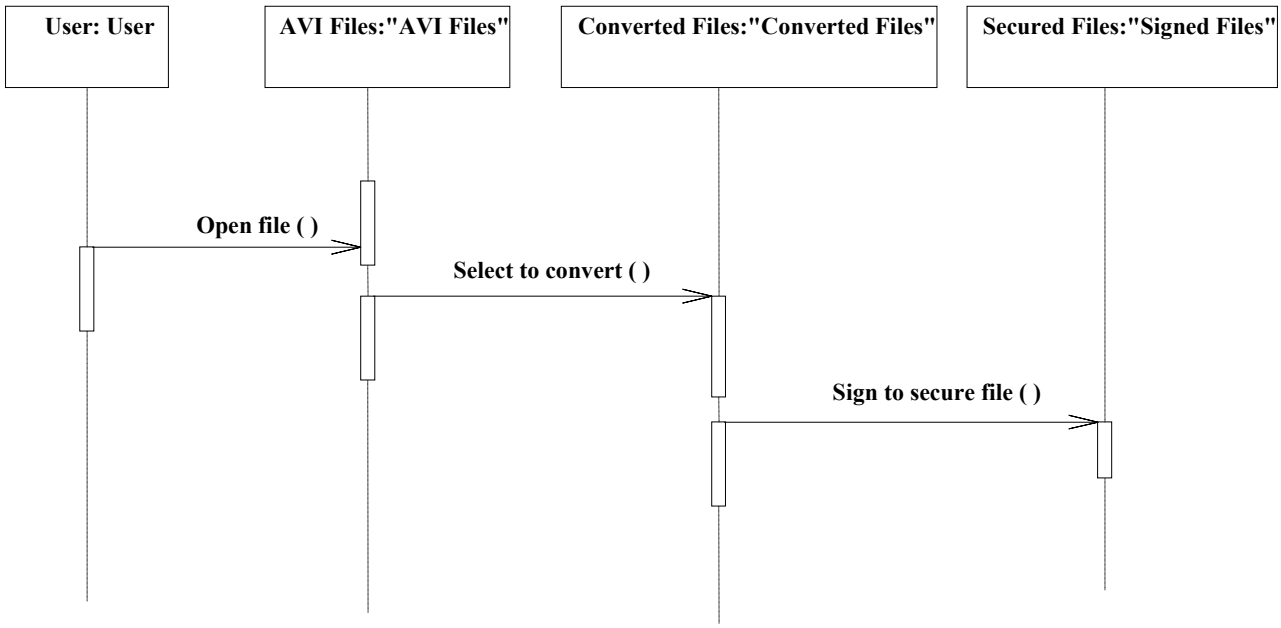


19. CLASS DIAGRAM DESCRIPTION

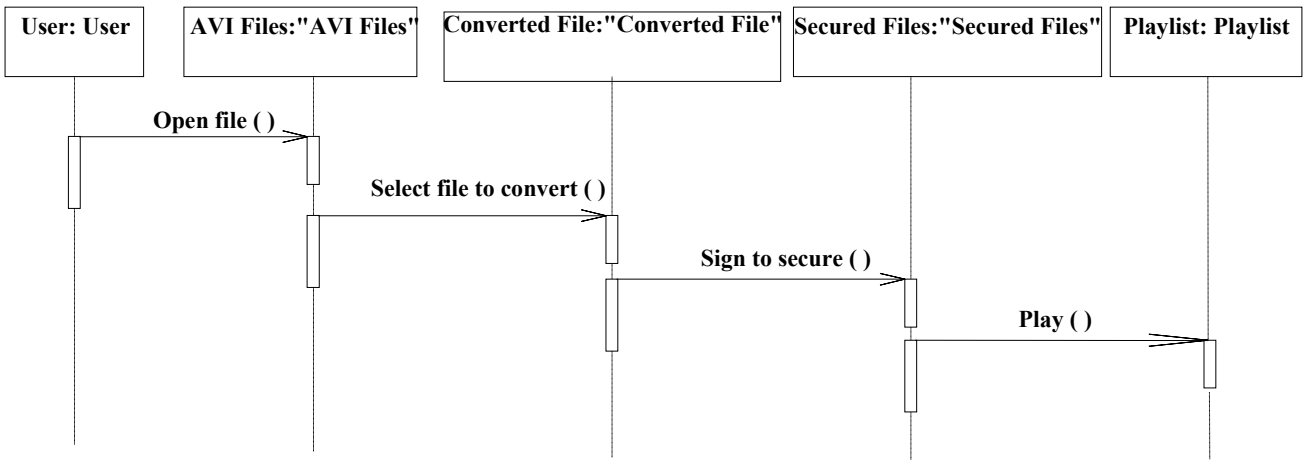
NAME OF CLASS	DESCRIPTION
AVI file	The AVI class has the data of all the files that are already in its original state before it is converted and signed to make it authentic. The data has all there necessary attributes of such files.
Converted files	This class holds the video files that have already been converted from AVI to MPEG format. Is also comes with its attributes as well.
Secured files	Secured file class contains all the files after it has been secured to make it authentic, with its necessary attributes.
Playlist	All video files that are ready to be played are stored in the playlist data. From this data the video files are selected to play, depending on the one user want to play first.
Alteration records	The Alteration records class is a class to keep the records of the events that has happened to a particular video file. It keeps these records so that when a video file is detected of been altered, the detailed of time for the alteration can be traced.

20. SEQUENCE DIAGRAM

20.1. SEQUENCE DIAGRAM FOR CONVERT AND SECURE FILES



20.2. SEQUENCE DIAGRAM FOR PLAY



21. SEQUENCEDIAGRAM DESCRIPTION

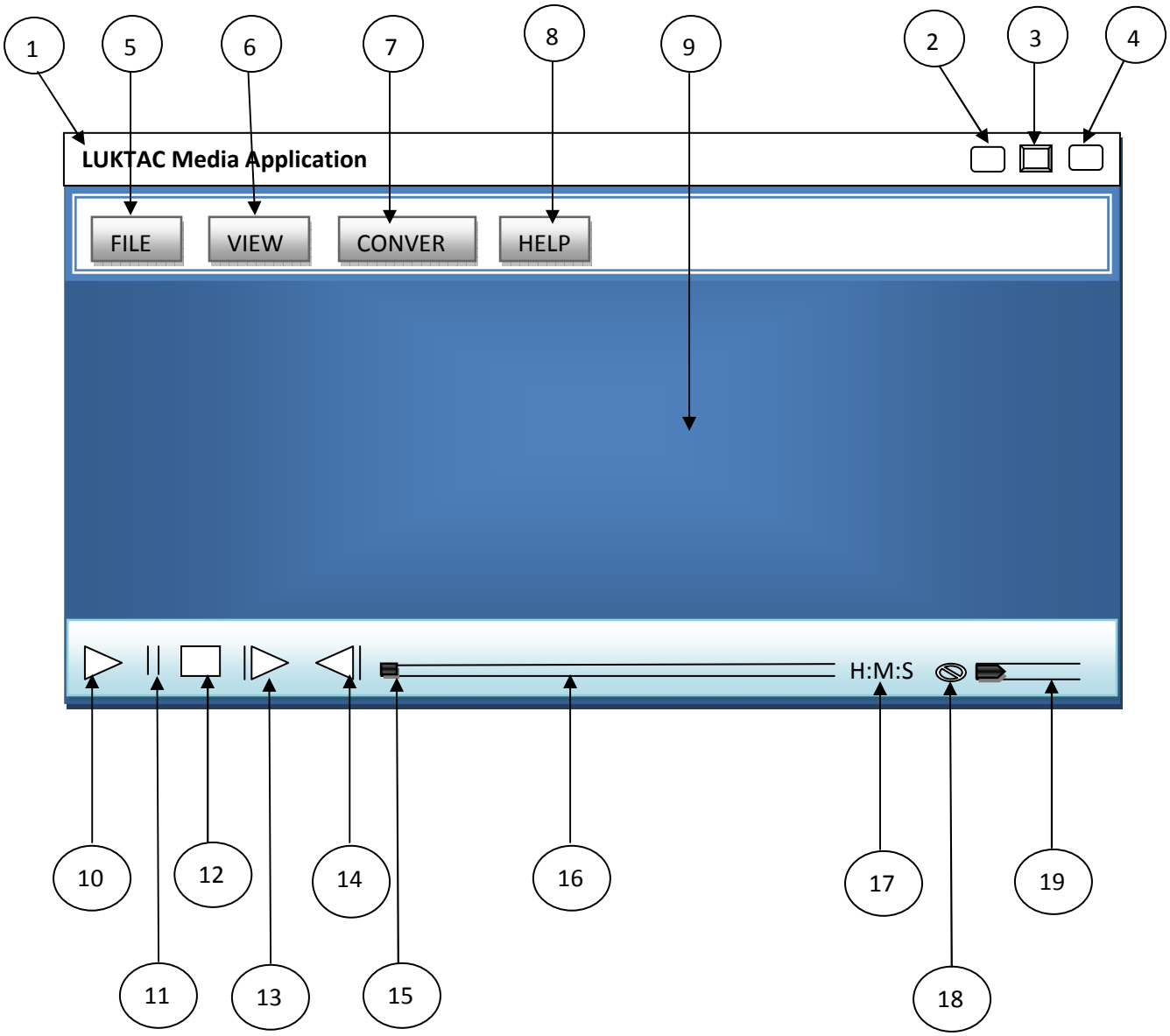
CLASS NAMES	**DESCRIPTION**
User	The user here is the individual who uses the software.
AVI File	It holds the data of the files which are already available for conversion, singing and playing.
Converted File	It holds the files which have already been converted.
Playlist	This class has the files which are ready to be played.
FUNCTIONS	
Open file ( )	The first thing the user does either to convert, sign or play a video file.
Select file to convert ( )	The user moves on to the next activity to select a file to convert.
Sign to secure ( )	This is the next sequence of action, to secure a selected video file.
Play ( )	The user goes on to play the video files in the playlist.

DESIGN PHASE DOCUMENTATION

22. DESIGN PHASE DOCUMENTATION

The design phase of the proposed project is about the project's interfaces at the various stages of the designed software application. There are 10 different interfaces for various stages of the designed software and each phase demonstrates the real functionalities that are needed in the proposed software application.

23. MAIN INTERFACE



The Main Interface as shown above is the first stage of the interfaces of the software application. This appears just when the application is opened. There are 19 parts of the software application that can be seen at the main interface as labeled above.

24. DETAILED DESCRIPTION OF THE PARTS

1 – TITLE BAR

The title bar, as the name implies shows the name and the logo of the product – The software application.

2 – MINIMIZE BUTTON

The button is to allow the user to perform two functions, which are to minimize the application to the task bar and to minimize it from the maximum state.

3 – MAXIMUM BUTTON

It is for the user to enlarge the software application to the computer screen size.

4 – CLOSE BUTTON

The close button allows the user to exit of get the entire software application off the screen.

5 – FILE MENU

The File Menu contains four other links which will send the user to other inner functionalities of the computer system which would be needed by the software application. The four links are the open file, save, add to file and remove from file.

6 – VIEW MENU

The View Menu has three main functions under it. The first one is full screen, normal screen and playlist.

7 – CONVERT BUTTON

The convert button brings a page where the user can select a list of video files to convert.

8 – HELP BUTTON

This has two main sub-functions, which are the Guide to use the software and About the software product.

9 – MAIN SCEERN

The main Screen shows the visual effect of the video. At the same time it displays some information needed to be known to the user as well as supporting other functionalities; such as select file to convert etc.

10 – PLAY

The play button allows the user to watch a video, either before or after converting.

11 – PAUSE

The user can use the pause button to stop the video being played as it is still in progress and can resume playing from the spot as it was stopped.

12 – STOP

The Stop button is used to stop the video being played and when the user wants to play the video it will start all over again from the beginning.

13 – NXET

The Next Button is used to move on to the next video file in the playlist.

14 – PREVIOUS

To go back to the video file played before the current one in progress, the previous button is used.

15 – SLIDE BAR

The Slide Bar marks the progress of the video as it plays. It allows the user to either click or drag to forward or rewind a video being played.

16 – SLIDE FOR VIDEO PROGRESS

It displays the progress of the video in respect to time.

17 – TIME

The Time shows how long the video file will last in hours, minutes and seconds.

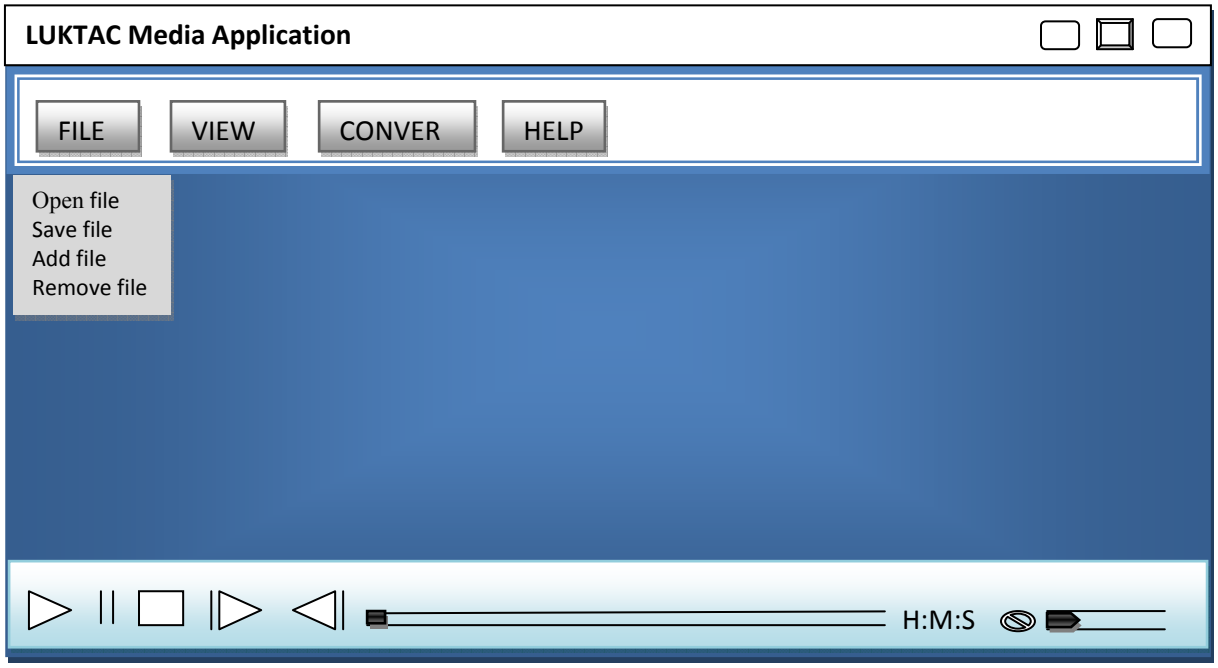
18 – MUTE

Mute is for the user to put the entire sound into silence.

19 – VOLUME

It is for the adjustment of the video sounds to either low or high.

25. FILE MENU INTERFFACE



The File Menu contains four other links which will send the user to other inner functionalities of the computer system which would be needed by the software application. The four links are the open file, save, add to file and remove from file.

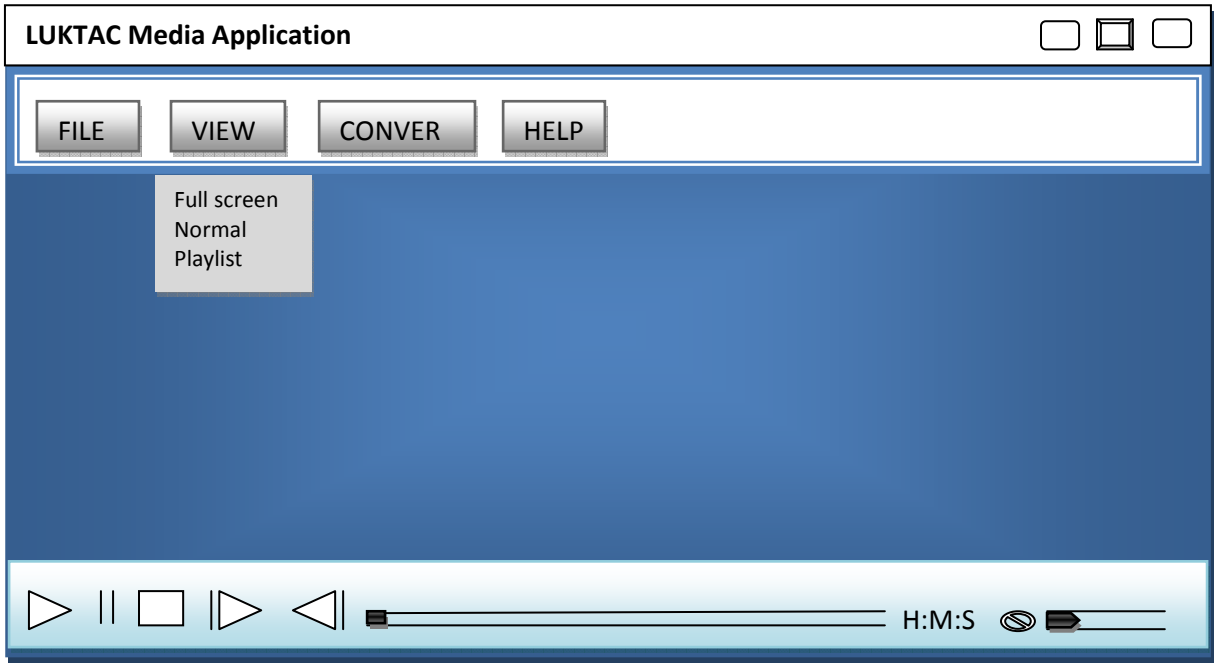
Open file: Open file sends the user to any located drive by the system where a video file can be selected before other functions by the software application.

Save file: Used to save all files that needs to be played in the playlist.

Add file: Add file allows the user to add additional files to the existing ones in the playlist.

Remove file: Remove file allows the user to delete a file form the list of files to be played or still in play.

26. VIEW MENU INTERFACE



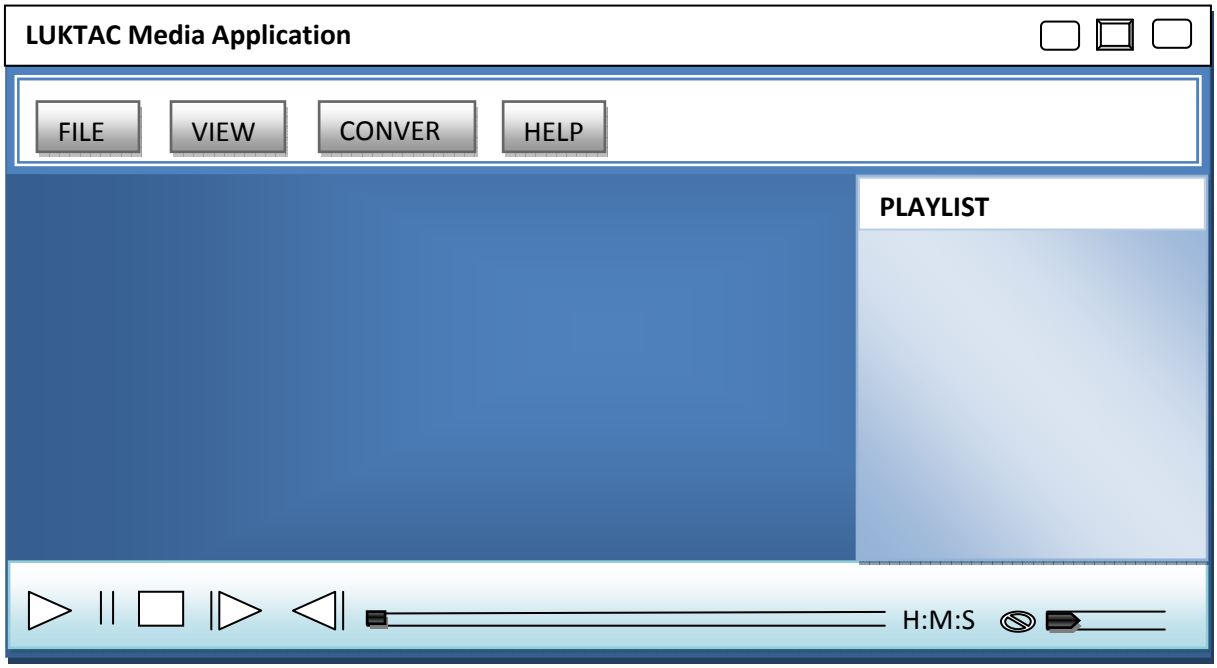
The View Menu has three main functions under it. The first one is full screen, normal screen and playlist. These links allows the user to perform the listed functions.

Full Screen: This allows the user to view the video from the default screen to a large screen that can cover the whole system screen.

Normal: Normal allows the user to return to the normal default screen.

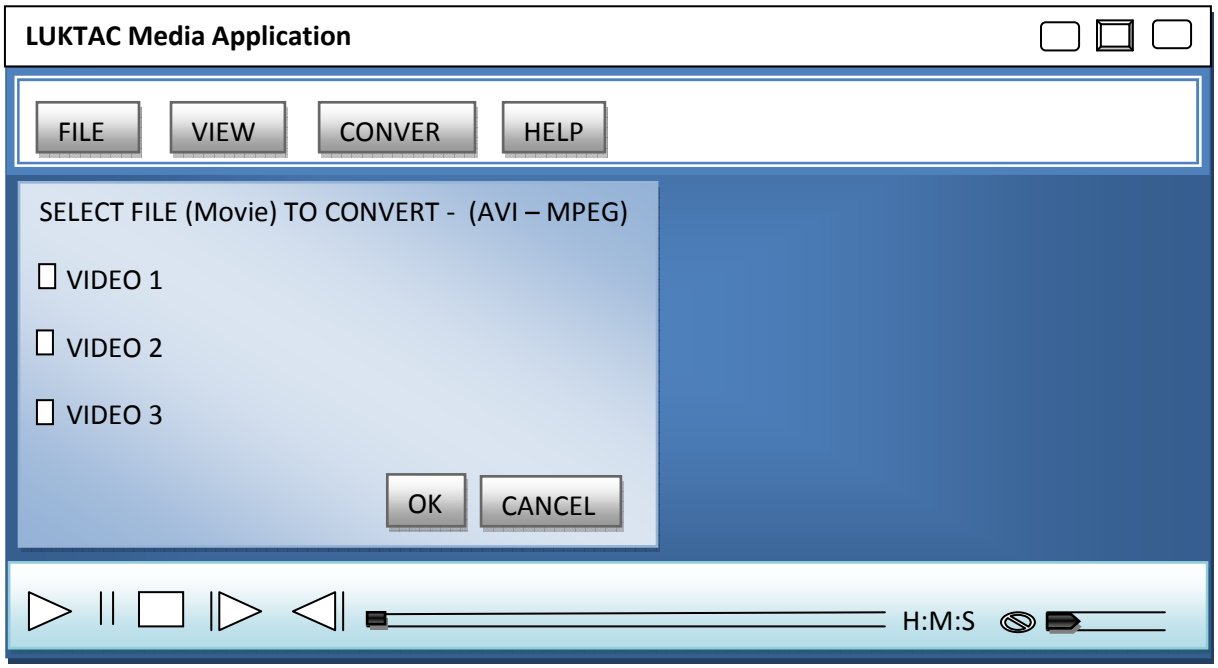
Playlist: Playlist takes the user to a list of video files that are selected to be playing.

27. PLAYLIST INTERFACE



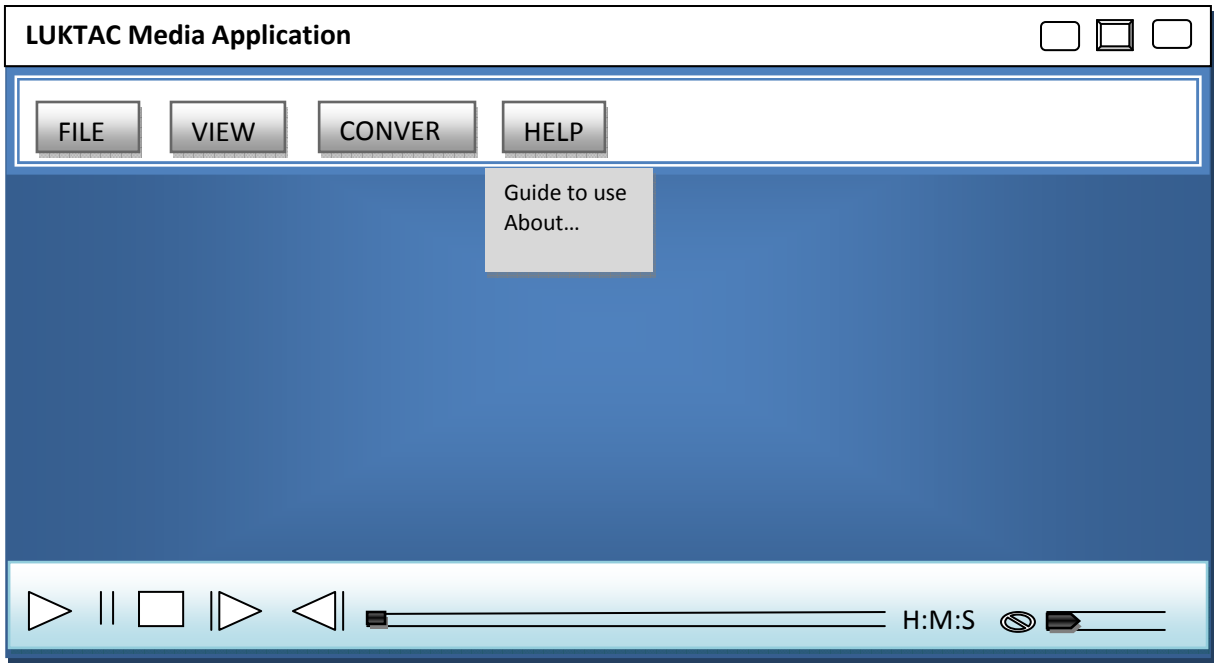
The Playlist interface displays the list of video files that have been selected to play in a sequential order.

28. CONVERT INTERFACE



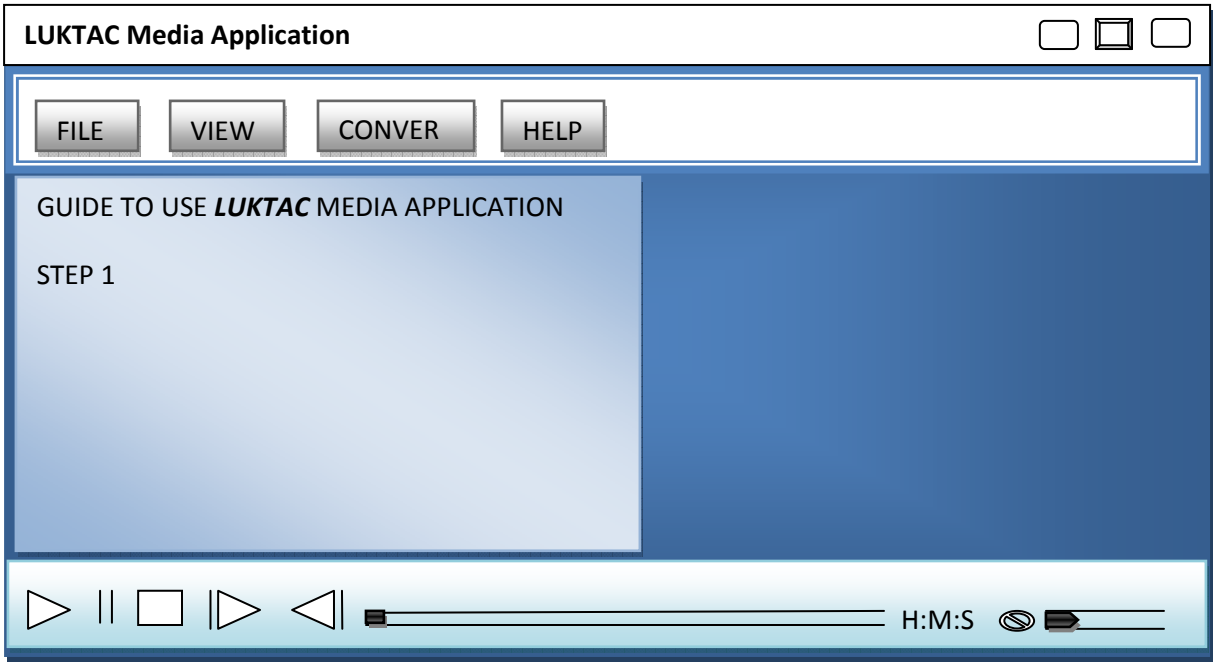
From the Convert interface, the user is allowed to select from a list of video files to do the conversion on any preferred video. From the check boxes one video can be selected and ok can be clicked to confirm the selected video file to convert.

29. HELP MENU INTERFACE



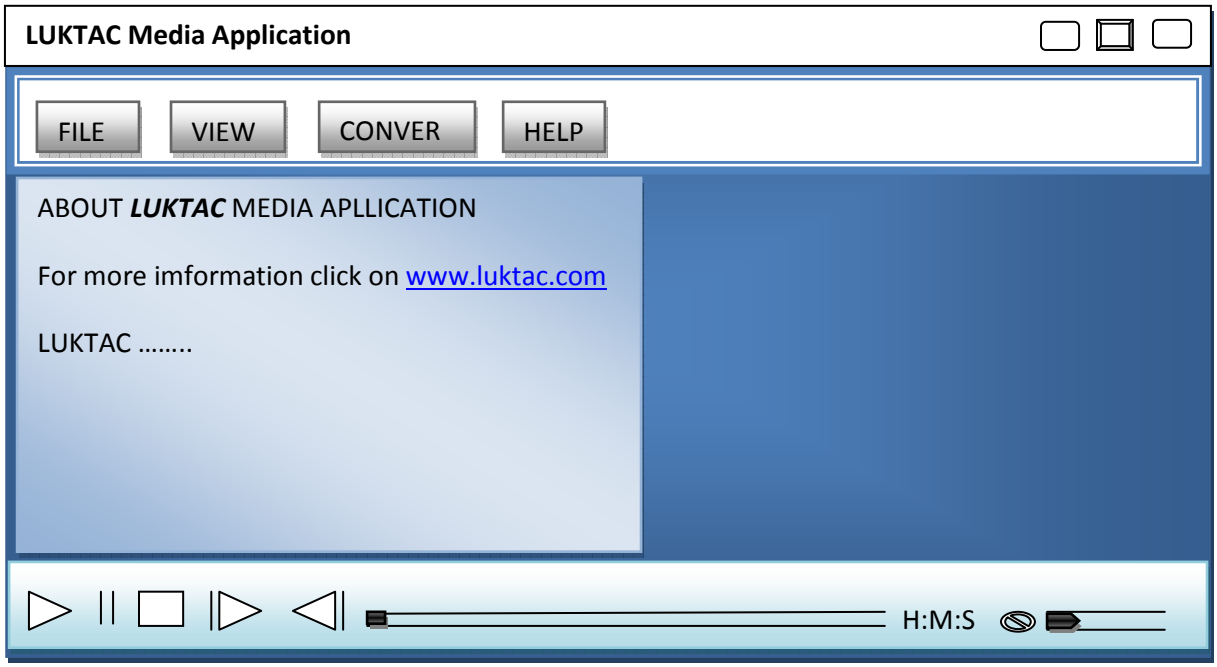
The Help interface has two main sub-functions, which are the Guide to use the software and About the software product.

30. GUIDE TO USE INTERFACE



The Guide to Use interface displays the various steps that teach the user on how to use the product.

31. ABOUT INTERFACE



This is the About… the product and the company interface. It displays all the information that needs to be known by the user on the product. It also has the detailed information about the company.

32. WEEKLY ACTIVITY SUMMARY

32.1 Weekly Activity Summary: Udah Chima Emmanual

Weekly Activity Summary: Week - 02

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Project Proposal				Attend group meeting	Taking minutes of meeting	
Tue.									
Wed.					Past project samples				
Thur.			Compilation of Project Proposal				Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Made a research on the Project topic	
Total									

Weekly Activity Summary: Week - 03

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.							Attend group meeting	Made a research on the Project	
Tue.			Documentation of project plan						
Wed.			Documentation of project plan						
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Research on media players	
Total									

Weekly Activity Summary: Week - 04

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.					Website samples		Attend group meeting		
Tue.								Research on media players with in built function	
Wed.									
Thur.			Compilation of project plan				Attend group meeting	Taking minutes of meeting	
Fri.								Website design discussion	
Sat.		Media player interface research							
Total									

Weekly Activity Summary: Week - 05

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.		Project Website					Attend group meeting		
Tue.		Gantt Chart design							
Wed.			Minutes of meeting documentation						
Thur.							Attend group meeting		
Fri.									
Sat.					Media players documentation samples				
Total									

Weekly Activity Summary: Week - 06

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.								Taking minutes of meeting	
Mon.		Project Website					Attend group meeting		
Tue.									
Wed.		Project Website							
Thur.			1st Minutes of meeting final documentation & submission				Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Algorithms need research	
Total									

Weekly Activity Summary: Week - 07

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Preliminary user-manual documentation				Attend group meeting	Explained media player conversion to team members	
Tue.		Preliminary interface design							
Wed.									
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.			Preliminary user-manual documentation						
Sat.									
Total									

Weekly Activity Summary: Week - 08

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.		Preliminary interface design					Attend group meeting		
Tue.									
Wed.									
Thur.			Preliminary user-manual documentation				Attend group meeting		
Fri.									
Sat.								Taking minutes of meeting	
Total									

Weekly Activity Summary: Week - 09

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.					Research documents		Attend group meeting		
Tue.									
Wed.		Project Website design							
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.			Preliminary user-manual documentation						
Sat.		Project Website design							
Total									

Weekly Activity Summary: Week - 10

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.								Review User Manual	
Mon.							Attend group meeting		
Tue.									
Wed.									
Thur.					Media player sample		Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.		Project Website design							
Total									

Weekly Activity Summary: Week - 11

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Preliminary user-manual documentation compilation & submission				Attend group meeting		
Tue.									
Wed.									
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.		Project Website design							
Total									

Weekly Activity Summary: Week - 12

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Minutes of meeting documentation review Weekly activity summary submission				Attend group meeting		
Tue.									
Wed.									
Thur.		Project Website design first part finalized					Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Code to be use research	
Total									

Weekly Activity Summary: Week - 13

Name: Udah Chima Emmanual **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Project Website design first part submission			Project website presentation	Attend group meeting		
Tue.									
Wed.									
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Code research	
Total									

32.2 Weekly Activity Summary: Francis Kyereh Twumasi

Weekly Activity Summary: Week - 02

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Project Proposal				Attend group meeting	Taking minutes of meeting	
Tue.								Made a research on the Project topic	
Wed.									
Thur.			Compilation of Project Proposal				Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Reviewed of past project samples	
Total									

Weekly Activity Summary: Week - 03

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.							Attend group meeting		
Tue.			Documentation of project plan						
Wed.	Algorithms needed analyzed								
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.					Samples of media players				
Sat.									
Total									

Weekly Activity Summary: Week - 04

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.						Algorithms	Attend group meeting		
Tue.									
Wed.									
Thur.			Compilation of project plan				Attend group meeting	Taking minutes of meeting	
Fri.								Website discussion	
Sat.								How conversion is done in some media players	
Total									

Weekly Activity Summary: Week - 05

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.		Gantt Chart design					Attend group meeting		
Tue.	Algorithms and Programming Language to be used								
Wed.									
Thur.							Attend group meeting		
Fri.	Algorithms and Programming Language to be used								
Sat.								Taking minutes of meeting	
Total									

Weekly Activity Summary: Week - 06

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.							Attend group meeting	Research on the internet	
Tue.									
Wed.									
Thur.			1st Minutes of meeting final documentation & submission				Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Research on the internet	
Total									

Weekly Activity Summary: Week - 07

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Preliminary technical design documentation				Attend group meeting		
Tue.								Research on the internet on algorithms	
Wed.		Preliminary interface design							
Thur.		Preliminary interface design					Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Digital signature research	
Total									

Weekly Activity Summary: Week - 08

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.	Sketched UML diagrams						Attend group meeting		
Tue.									
Wed.	Sketched UML diagrams								
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.			Preliminary technical design documentation						
Sat.									
Total									

Weekly Activity Summary: Week - 09

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.	Sketched UML diagrams						Attend group meeting		
Tue.									
Wed.									
Thur.			Preliminary technical design documentation				Attend group meeting		
Fri.								Taking minutes of meeting	
Sat.									
Total									

Weekly Activity Summary: Week - 10

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Preliminary technical design documentation				Attend group meeting		
Tue.									
Wed.		Interface Design finalization							
Thur.	Sketched UML diagrams						Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.									
Total									

Weekly Activity Summary: Week - 11

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Preliminary technical design documentation compilation & submission				Attend group meeting		
Tue.								Research continuation	
Wed.									
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.									
Total									

Weekly Activity Summary: Week - 12

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.					Algorithms				
Mon.			Minutes of meeting documentation review Weekly activity summary submission				Attend group meeting		
Tue.									
Wed.									
Thur.		Project Website design first part finalized					Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.									
Total									

Weekly Activity Summary: Week - 13

Name: Francis Kyereh Twumasi **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Project Website design first part submission			Project website presentation	Attend group meeting		
Tue.									
Wed.									
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.					Algorithms				
Sat.									
Total									

32.3 Weekly Activity Summary: Lawal Abdulhayyu Hamsiu

Weekly Activity Summary: Week - 02

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.	Project Topics analyzed		Project Proposal documentation				Attend group meeting	Taking minutes of meeting	
Tue.									
Wed.								Made a research on the Project topic	
Thur.			Compilation of Project Proposal documentation				Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.									
Total									

Weekly Activity Summary: Week - 03

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.							Attend group meeting	Taking minutes of meeting	
Tue.			Documentation of project plan						
Wed.								Made a research on the Project	
Thur.							Attend group meeting		
Fri.					Microsoft project manager installed				
Sat.								Asked lecturers about the chosen project	
Total									

Weekly Activity Summary: Week - 04

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.							Attend group meeting		
Tue.			Research on the project topic						
Wed.									
Thur.			Compilation of project plan				Attend group meeting	Taking minutes of meeting	
Fri.								Website discussion	
Sat.									
Total									

Weekly Activity Summary: Week - 05

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.		Project Website	Gantt Chart				Attend group meeting		
Tue.		Gantt Chart Design							
Wed.									
Thur.			Minutes of meeting documentation				Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Project topic research	
Total									

Weekly Activity Summary: Week - 06

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.		Gantt Chart					Attend group meeting		
Tue.									
Wed.		Project Website							
Thur.			1st Minutes of meeting final documentation & submission				Attend group meeting		
Fri.			Weekly activity summary documentation					Taking minutes of meeting	
Sat.		Project Website							
Total									

Weekly Activity Summary: Week - 07

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.								Project Research	
Mon.			Preliminary user-manual documentation				Attend group meeting		
Tue.		Preliminary interface design							
Wed.									
Thur.			Preliminary technical design documentation				Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Consult senior students	
Total									

Weekly Activity Summary: Week - 08

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Preliminary user-manual documentation				Attend group meeting		
Tue.									
Wed.									
Thur.			Preliminary technical design documentation				Attend group meeting		
Fri.								Taking minutes of meeting	
Sat.								Project Research	
Total									

Weekly Activity Summary: Week - 09

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.		Project Website	Preliminary user-manual documentation				Attend group meeting	Taking minutes of meeting	
Tue.									
Wed.									
Thur.			Preliminary user-manual & interface documentation				Attend group meeting	Taking minutes of meeting	
Fri.			Weekly activity summary documentation						
Sat.					Frontpage installed for project website design			Project Research	
Total									

Weekly Activity Summary: Week - 10

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Minutes of meeting documentation				Attend group meeting		
Tue.		Interface Design finalization							
Wed.									
Thur.		Project Website					Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.								Project Research	
Total									

Weekly Activity Summary: Week - 11

Name: Lawal Abdulhayyu Hamisu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Preliminary technical design documentation compilation & submission				Attend group meeting		
Tue.									
Wed.									
Thur.		Website design reviewed	Weekly activity summary documentation				Attend group meeting	Taking minutes of meeting	
Fri.			Minutes of meeting documentation review						
Sat.									
Total									

Weekly Activity Summary: Week - 12

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Minutes of meeting documentation review Weekly activity summary submission				Attend group meeting		
Tue.									
Wed.									
Thur.		Project Website design first part finalized					Attend group meeting	Taking minutes of meeting	
Fri.									
Sat.									
Total									

Weekly Activity Summary: Week - 13

Name: Lawal Abdulhayyu Hamsiu **Group**: BCSDS -13

Project Title: Secure Stream (Video) Authentication

Task -------- Day	Analysis	Design	Documentation	Coding	Data Preparation	Presentation	Meetings	Other	Total
Sun.									
Mon.			Project Website design first part submission			Project website presentation	Attend group meeting		
Tue.									
Wed.									
Thur.							Attend group meeting	Taking minutes of meeting	
Fri.								Research continues	
Sat.								Software design research	
Total									

33. CONCLUSION

The first phase of the project can be termed as the preliminary technical manual for the entire project. With this, with this we conclude that this documentation which covers the detailed procedure of the development of the project. It consists of the major aspects of the documentation which are the Project plan, the Analysis phase document and the Design phase document. In addition, there is the complete project schedule from the beginning of the project development to the completion of it. This is being represented using a Gantt Chat. Lists of references are attached to this documentation as well.

The Analysis phase of the project is implemented using UML diagrams. The five major diagrams which are used are the use case diagram, activity diagram, state diagram, class diagram and the sequence diagram. It has been clearly defined and its various functions are stated clearly as well.

The Design phase of the entire project has been implemented as well in this preliminary documentation. All the various stages of interfaces in the project are displayed with detailed definitions and explanations as well.