\subsubsection{Functional}

\begin{itemize}

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\item Back-end that will handle requests from web application pages

\item Front-end that will send requests to the server if database related things are needed

\item Home page that has a create account and login buttons in the middle of the screen, and details about the website below it

\item Login page should contain a username box, a password box, a login button and a create account button

\item Login page login button should log the user in if the username and password is correct, taking the user to their home room page

\item Login page should have an forget password button to go to the forget password page if the user has forgotten their password

\item Forget password page should have an entry box to enter the email address of the account the user has forget their password for, a button to send a forgot password email to the address which would take them to a rest password page and a button to take them back to the login page if they remember their password

\item Forget password page should show an error if their is no account for the given email

\item Forget password page should show a prompt to tell the user to click the send email button again if their email doesn't arrive in their inbox, and that the email could be in spam

\item Reset password page should have an entry box for a new password, repeat password and a reset password button

\item Reset password page reset button should change the password of the account and login them in unless the passwords don't match where an error message will appear stating that the passwords don't match

\item Login page should show an error alert if the username and/or password is incorrect

\item Create account page should show a username box, password box, repeat password box, cancel button and create account

\item Create account page create account button should create an account with the username, email address \& password given and take them to their account home page unless the username and/or email is already in use or the passwords do not match (error alert will appear to show which error occurred)

\item Account related pages should have a side bar showing the list of rooms, including the account settings and add room buttons below that

\item Add room button should show a pop up in the middle of the screen that with a new room tab or existing room tab, along with a cross to close the pop up if the user changes their mind

\item Add room button pop-up while the new room tab is selected allows you to enter a room name and create a room with that name. It will take you to the room page, which will show the room code which will be automatically generated by the server and is unique

\item Add room button pop-up while the existing room tab is selected allows you to enter the room code of an existing room. If its correct, it will add that room to your list of rooms and automatically take you to that room

\item Account related pages' side bar should allow the user to right click a room, which will give the option list containing a leave button

\item Room page should have a banner at the top containing the name of the room, the code of the room, list of users button and room settings button (for administrators \& moderators only)

\item Room page should have a video player at the centre left with a upload file button underneath that allows you to select a video file from your file explorer and upload it the server (error alert if not actually a video file)

\item Room page should have a chat box at the centre right with the entry box and send button underneath it

\item Room page list of accounts button should show a pop-up box listing the accounts by representing them by their username. If the user is an administrator, they got the option to make every other account a moderator (or set them back to a normal user if they are already a moderator), or kick them, represented by buttons next to them. Moderator users can do this also except not to the admin. Normal users can not do anything with this list

\item Room page settings button should show a pop that has a new room name box, room icon selector (default if none selected yet), main room colour theme select (through a colour picker pop up), secondary room colour theme select (through another colour picker pop up), save changed settings button and a cancel button

\item Room page settings button icon selector should let you select an image file from your file explorer (error alert if the file is not actually an image file)

\item Settings room page should show you avatar \& username at the top, a avatar change button and a change password button

\item Setting room page avatar button should open the file explorer to allow you to select an image file for your avatar (error alert if not actually a image file)

\item Change password room page should have a old password box, new password box, repeat new password box, a cancel button and a save password. If the old password is correct and the new passwords match, the password is changed, otherwise an error alert appears stating that the old password is wrong or the new passwords don't match

\item If there are no users in a room, this room should be removed from the database

\end{itemize}

\subsubsection{Non-Functional}

\begin{itemize}

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\item Connection between the front-end and the back-end needs to be almost instant

\item Connection between users should have the least delay as possible so the video appears in sync with all users. If there is delay for a user, this should be dealt with

\item Default main font colour needs to be white

\item Default main secondary font colour needs to

\item Font error colour needs to be red

\item Font type needs to be Verdana

\item Website should have a logo which is placed on suitable areas on different pages

\item Default main theme colour should be light blue

\item Default secondary theme colour should be white

\item Administrator/Moderator should be able to change the theme colour for their room

\item Account related page side bar should be blue

\item Account related pages room buttons should have a icon \& label, with the home room having a face as the icon, the rooms having a custom icon, the add room being a plus sign and the settings having a cog icon

\item Room page members list should have A symbol next to the admin, and a M symbol to represent the moderator. Hovering over these symbols should state this information for anyone unsure

\end{itemize}