

☐ Backend

- ☒ Create Springboot project
 - ☒ Add dependencies (maven, springboot dependencies, cucumber and rest assured for testing)
 - ☒ Set up application profile (h2 database details, port number,
 - ☐ Probably comment out these lines once application is finished
spring.datasource.username=sa , spring.datasource.password= ,
spring.h2.console.enabled=true
- ☒ Set up Project
 - ☒ Testing
 - ☒ Auth Controller endpoints
 - ☒ User Controller endpoints
 - ☒ Services
 - ☒ Create Models
 - ☒ User
 - ☒ Room
 - ☒ Chat
 - ☒ Login Response
 - ☒ Login Request
 - ☒ Create Exceptions
 - ☒ AlreadyExist
 - ☒ NotFound
 - ☒ Create Controllers
 - ☒ Auth Controller
 - ☒ Endpoints
 - ☒ Register
 - ☒ Login
 - ☒ User Controller
 - ☒ Endpoints
 - ☒ Create Room
 - ☒ Get all Chats for this Room
 - ☒ CRUD for Chats
 - ☐ Get all chats for this User
 - ☒ Create Services
 - ☒ User Service
 - ☒ Create Room
 - ☐ Get all Chats for this Room
 - ☒ CRUD for Chats
 - ☐ Get all chats for this User

- ☒ Create Repositories
 - ☒ User Repository
 - ☒ findByID
 - ☒ Room Repository
 - ☒ Chat Repository
 - ☒ findById,UserId,RoomId
- ☒ Security
 - ☒ JWTRequestFilter
 - ☒ JWTUtils
 - ☒ MyUserDetails
 - ☒ MyUserDetailsService
 - ☒ SecurityConfiguration

☐ Frontend

- ☒ Create Angular project
- ☒ Set up HTML and CSS for each page
 - ☒ Landing Page
 - ☒ Welcome message
 - ☒ Username input field
 - ☒ Password input field
 - ☒ Sign In Button
 - ☒ Guest Button
 - ☒ Sign up Button
 - ☒ Main page
 - ☒ Join room message
 - ☒ Buttons for each room
 - ☒ Max 10 per page
 - ☒ More rooms message
 - ☒ Pagination buttons
 - ☒ Sign out button
 - ☒ Create room button
 - ☒ Room page
 - ☒ Div for each message
 - ☒ Name of sender
 - ☒ Max 20 per page
 - ☒ Home button
 - ☒ Edit button

- ☒ ~~Delete button~~
- ☒ ~~Input field~~
 - ☐ Starts small, expands if clicked
 - ☒ ~~Submit button~~
- ☐ Link to backend
 - ☐ Landing page
 - ☒ ~~When sign in button is clicked~~
 - ☒ ~~Checks if both input fields not empty~~
 - ☒ ~~Send post request to backend to validate login~~
 - ☒ ~~When guest button is clicked~~
 - ☐ Send post request to backend, create new User - guestXXX
 - ☒ ~~Send post request to backend, login guest user~~
 - ☒ ~~When sign up button is clicked~~
 - ☒ ~~Checks if both input fields not empty~~
 - ☒ ~~Send post request to backend to validate User creation~~
 - ☒ ~~Upon successful completion of any button action, re-route to Main page~~
 - ☐ Main page
 - ☒ ~~Function that runs on timer (3 secs?): pings backend with get request for all rooms in database (change detection to only re-render on new info?)~~
 - ☒ ~~When a room is clicked, reroute to Room page with that Room's id~~
 - ☒ ~~More rooms~~
 - ☒ ~~Re-renders room list with next page from backend~~
 - ☒ ~~Buttons for forward 1 page, back 1 page~~
 - ☒ ~~Greyed-out and not clickable if on 1st page or last page of results~~
 - ☒ ~~Page numbers buttons~~
 - ☒ ~~Re-renders specified page~~
 - ☒ ~~Sign-out~~
 - ☒ ~~Redirects to Landing Page~~
 - ☒ ~~Backend clears out MyUserDetails?~~
 - ☒ ~~Create room button~~
 - ☐ onclick should change into an input field for the room's name, and submit button, when submit button is clicked, send request to backend
 - ☐ Room Page
 - ☒ ~~Function that runs on timer (3 secs?): pings backend with get request for all Chats in this room in database (change detection to only re-render on new info?)~~

- ☒ Dynamically loads in chats for this room by getting roomId from url, sending request to database for information from room with specific roomId, then loading
- ☐ Make div that appears if edit button is clicked
 - ☐ New input field, starts with original message
 - ☒ Submit button
 - ☒ Sends update request to backend
 - ☒ Re-renders message
- ☒ Delete button
 - ☒ Sends delete request to backend
 - ☒ Re-renders without message
- ☒ Input field
 - ☒ Submit button
 - ☒ Sends post request to backend
 - ☒ Re-renders with new message
- ☐ Bonus feature: scrollable window for displaying Chats
- ☐ Bonus feature: Hover message
 - ☐ Display sent time
 - ☐ If edited, display edited time message