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Software Architect and Design

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Phase ll

Detailed System Requirements:

Use Cases:

1. Having own Room
   1. Overview: This scenario describes a user making a new room
   2. Notes: They can access the site from any browser
   3. Actor: User – person who wants their own room
   4. Preconditions: User must be connected to the internet
2. Join Created Room
   1. Overview: This scenario describes a user joining a created room
   2. Notes: They can access the site from any browser, but it must be via a valid join code
   3. Actor: User – person who wants to join someone else’s room
   4. Preconditions: User must be connected to the internet and enter valid arguments to create a room (can’t have negative votes)
3. Leave Room
   1. Overview: This scenario describes a user leaving a room
   2. Notes: They can only do this while in a valid room
   3. Actor: User – person who is finished being in the room and wants to leave
   4. Preconditions: User must be connected to the internet and in a valid room
4. Having own Room
   1. Overview: This scenario describes a user making a new room
   2. Notes: They can access the site from any browser
   3. Actor: User – person who wants their own room
   4. Preconditions: User must be on the create room page
5. Not be put in an empty room
   1. Overview: This scenario describes a user joining an invalid room
   2. Notes: They must be at the join page
   3. Actor: User – person who tries joining a room that has not been created yet
   4. Preconditions: User must be connected to the internet

Features to be supported:

Complete full-stack application with CRUD operations

Front end and back end which communicate with each other

Serializer to convert data to JSON for the model object to read data

Configuration with webpack to compile all .js files into one

Custom API endpoints to deal with user interaction

Django REST Framework implemented successfully

ASRS:

1. The system must be able to make a custom room
2. The system must be able to delete a created room
3. The system must be able to host multiple users on one page
4. The system must be able to host
5. The system must support all web browsers
6. The system must prevent incorrect URL parameters and have the UI respond accordingly
7. The system must be able to manage a created room

Intended development framework:

Django, React, NPM, Webpack, Babel, Node, Python, MaterialUI, JavaScript, Django REST Framework