**Software Implementation and Testing Document**

**For**

**Group 3**

**WeShed**

Version 1.0

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# Programming Languages

*Our group is using JavaScript and MySQL. JavaScript is being used for the front and back end implementations. In the front, JavaScript is being used to serve HTML via React implementations, while in the back, JavaScript plays a role in declaring listening functions and how the listening server is setup to respond and execute. The back-end server communicates with our AWS database via MySQL queries and then communicates those queries back to front end. React serves HTML through the render function.*

# Platforms, APIs, Databases, and other technologies used

*We are using an AWS RDS MySQL Database to provide persistent cloud data for our schema. The back-end talks to the AWS database and the back-end responds to front-end requests for data. The front end consists of HTML that is dynamically generated using ReactJS.*

*Packages/Libraries:*

*Front End:*

*-ReactJS*

*-ReactPlayer (component on NPM for convenient embedding of videos via url)*

*Back End:*

*-Express for creating the application*

*-body-parser for json packaging*

*-morgan for debugging*

*-cors(Cross Origin Resource Sharing) to understand front-end requests*

*-mysql to create a connection with the database*

*-crypto for encrypting passwords in the database*

*-jsonwebtoken for hashing cookie tokens*

# Execution-based Functional Testing

*Describe how/if you performed functional testing for your project (i.e., tested for the* ***functional requirements*** *listed in your RD).*

# Execution-based Non-Functional Testing

*Describe how/if you performed non-functional testing for your project (i.e., tested for the* ***non-functional requirements*** *listed in your RD).*

# Non-Execution-based Testing

*Describe how/if you performed non-execution-based testing (such as code reviews/inspections/walkthroughs).*