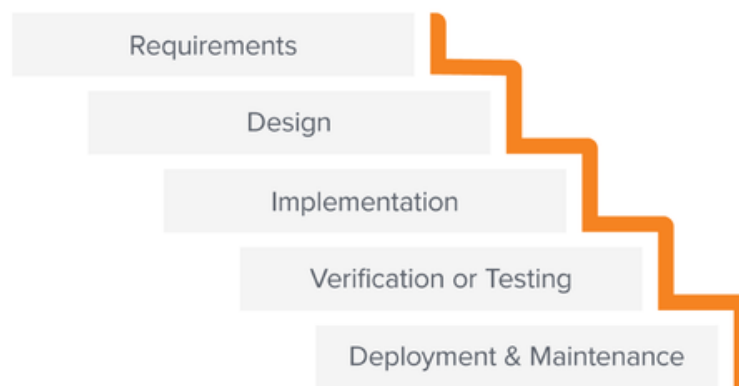


R1-1: Project Plan. Should include information such as team members, sprint velocity, collaboration tools used, implementation methodology

- Sprint velocity
 - 20 issues, 5 meetings. Therefore, sprint velocity of 4.
- Collaboration tools
 - github
 - figma
- Implementation methodology

The Waterfall Method



- Cloud service
 - Tentatively Azure database and web hosting

R1-2: All Features on a board. Initial work items (user stories, technical debt, or research items) created for features.

- SN1: Create and maintain secure user accounts and projects on the system
 - User interface
 - Login page
 - Register an account
 - Proceed as a existing user
 - Registration page
 - Email
 - Name
 - Password
 - Database to store user information
 - User information
 - Assigned project
 - Passwords will be hashed and saved

- SN2: View the status of all hardware resources in the system
 - User interface
 - Inventory relation machine
 - Interactive data dashboard
 - Create project or join project based on id
 - Database to store hardware information
 - Store hardware resource information
 - Substack database for individual projects
- SN3: Request available hardware resources and datasets from published sources
 - User interface
 - Customer relation machine
 - Database to store hardware information
 - Resource pull from substack project databases
- SN4: Once approved, checkout and manage these resources
 - User interface
 - Customer relation machine
 - Database to store hardware information
- SN5: Check-in the resources and get status of all hardware resources in the system
 - User interface
 - Customer relation machine
 - Database to store hardware information
- SN6: Deliver PoC within schedule constraints, with support for scalability

User interface screens

- Login
- Register
- Main page
 - Drop down menu to select project
 - Create new project
 - Items user has currently checkout
 - Items available for checkout
 - List all hardware in system
- Checkout
- Create/Manage Project
- Item Information Screen

System Requirements	Stakeholder Needs Met
SR1: PoC shall be delivered within budget and schedule constraint, with periodic updates to stakeholders	SN6

SR2: PoC App shall have a front-end web application that allows users to enter inputs and views outputs	All
SR3: PoC App shall have a mechanism for encrypting user-id and password	SN1
SR4: PoC App shall have a mechanism for creating new projects or accessing existing projects	SN1
SR5: PoC App shall have a database for maintaining user login credentials, project codes, project details, resource details	SN2, SN3, SN4, SN5
SR6: PoC App shall have a user-friendly interface for ease of use and navigation	SN2
SR7: PoC App shall be compatible with major web browsers (e.g. Chrome, Firefox, Safari, etc.)	SN6
SR8: PoC App shall provide real-time data validation and error handling to ensure data accuracy	SN4, SN3, SN5
SR9: PoC App shall have the ability to export data in various formats (e.g. PDF, Excel, etc.) for reporting purposes	SN3
SR10: PoC App shall have appropriate security measures in place to protect sensitive data and prevent unauthorized access.	SN6, SN1
SR11: PoC App shall be designed to scale and handle large amounts of data as the number of users and projects grow.	SN6
SR12: PoC App shall have an intuitive and configurable dashboards to help stakeholders monitor and track project progress, performance and resource utilization.	SN2, SN3

R1-3: High level sketch of the application

Feature
User interface
Technical requirements

Check Out
List all of user's planned checkout items
Checkout button
Data management system Server side communication and logging Client side scripting Security and authentication mechanism

Main Screen
Drop down menu to select project
Items user has currently checked out
Items available for checkout
List all hardware in system
Checkout page button
Click on item to view more information
Data retrieval Dynamic updates Integration to program systems CRM Dashboard updating

Create/Manage Project
Drop down menu to select project
Items user has currently checked out
Items available for checkout
List all hardware in system
Secure data transmission User input validation

Item Information Screen
Description of the item
Data retrieval Dynamic updates

