

SMART PARK

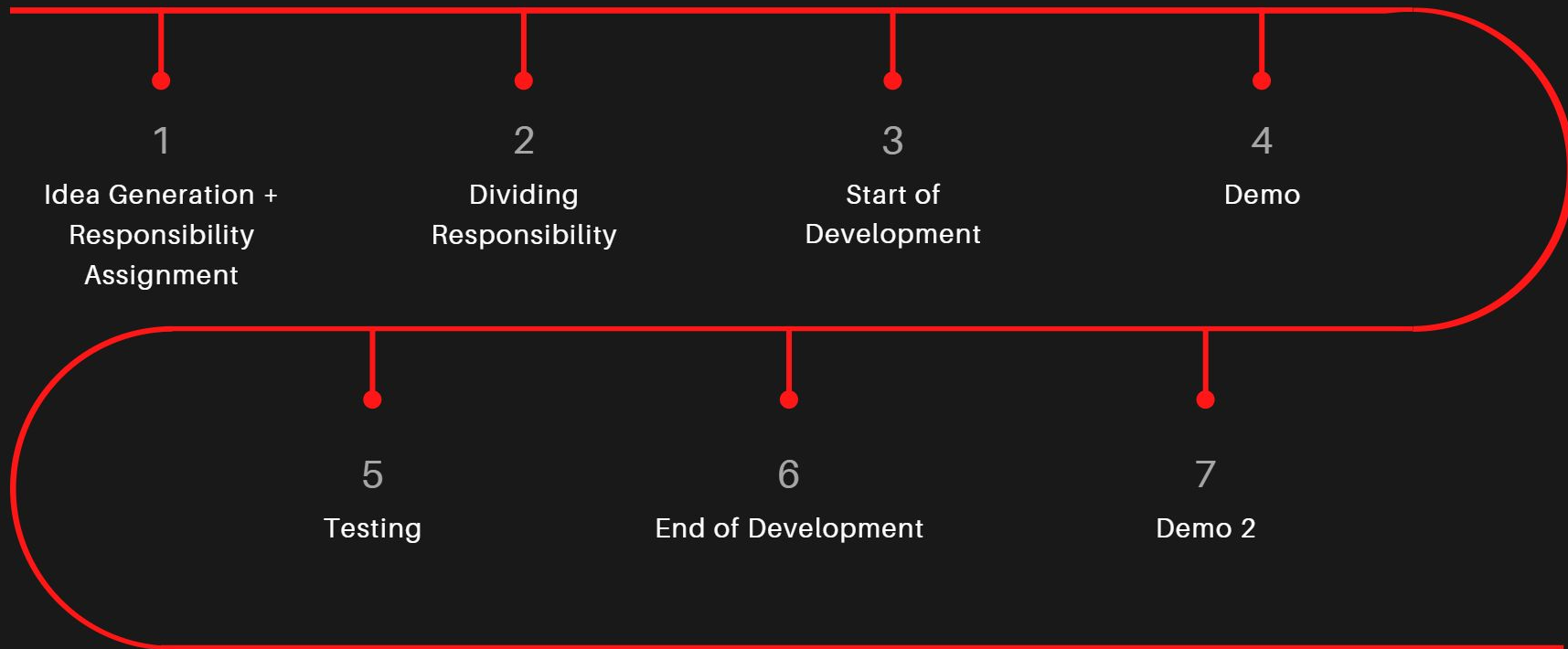


GROUP 3:

Disha Bailoor, Neha Nelson, Param Patel, Swetha Angara, Nicholas Meegan, Thomas Murphy, Charles Owen, Jeffrey Samson, Aniqah Rahim, Brian Ogbebor

SMART PARK

Demo Roadmap



Customer Registration Subgroup

Neha Nelson
Brian Ogbebor
Param Patel

- Sign Up/Login
 - Front End
 - Make A Reservation
 - Front End
 - Pay Bill
 - Front End
 - Back End Implementation
 - Insomnia + MongoDB
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Use Cases and Implementation- Customer Group

- Use Case 1: Login
- Use Case 2: Signup
 - Handled by Auth0
- Use Case 4: Making a Reservation
 - Frontend: Calendar UI to be more aesthetically pleasing - in progress
 - Backend: get + post is completely functional
 - Connection to Database from UI components - in progress
- Use Case 7: Paying the Bill
 - Frontend: Payment UI to be more aesthetically pleasing - in progress
 - Backend: get, post and delete is completely functional
 - Connection to Database from UI components - in progress

Managerial + Administrative Subgroup

Swetha Angara
Aniqa Rahim
Jeffrey Samson

- Manager Access
 - Statistics
 - Pricing Menu
 - Garage View
 - Manager Login
 - Interface
 - Backend
 - Google Home
 - Interface
 - Backend
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Use Cases and Implementations- Manager Group

- Home Page - Overview of SmartPark services
- Navigation Bar
- Use Case 2: Login Page
- Use Case 9: Create Garage Layout
 - Edit Layout Page - In Progress
- Use Case 11: View Garage, Use Case 13: Bill Customer
 - Reservation Page: Dynamic Table
 - Search and sort - In Progress
 - Bill and delete
 - Overview Page - In Progress
 - View current spot status
- Use Case 14: View Garage Usage Statistics
 - Statistics Page (Administrative Access-Only)
 - Graphs
 - Search stats for a specific date-time range - In Progress

Currently deployed at: <https://shielded-lake-21193.herokuapp.com/>

Elevator Operation Subgroup

Disha Bailoor
Nicholas Meegan
Thomas Murphy
Charles Owen

- Dynamic Pricing
 - Interface
 - Backend
 - Simulation
 - Interface
 - Back End Implementation
 - Backend MongoDB
 - Front End UI
 - Interface
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Use Cases and Implementations- Elevator Group

- Use Case 10: Set Pricing
 - Dynamic Pricing Model
- Use Case 15 - Scan License Plate
 - Back End Implementation - MongoDB
- Use Case 18 - Update Parking Spot Status
 - Simulation
 - FrontEnd Spot UI
- Use Case 19 - Elevator Terminal
 - FrontEnd UI of the Elevator Terminal
 - Currently deployed at <https://smartpark-elevator-terminal.herokuapp.com/>

Future Endeavors

- Improve the Front End UI
 - Improve marketability and professionalism of our brand
 - Can be done by making functioning buttons which link between each of the pages
- Create overview page that can view current spot status, rain check ability
 - Regulate control of the automation, give the manager a look at the situation at hand
- Continue work on the voice assistant
 - Decrease the distractions of a user making a reservation while driving
 - Need to add request and response functionality to voice assistant support
- Connection of the Front End UI's to the Backend of the MongoDB
- Create a secure payment collection method that can update the database
- Create Calendar Page, finish functionalities of Reservation and Statistics pages
- Add in an interactive garage viewing system

SMART PARK



THANK YOU FOR WATCHING!