UI Tests:

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| # | Artifact Tested | Pre-Conditions | Test Steps | Expected Results | Passed? |
| 1 | Customer app UI | “Enter Vehicle Number” field is empty | Click on “Submit Vehicle ID” button | Show “Vehicle ID is empty” message | Yes |
| 2 | Customer app UI | “Enter Vehicle Number” field is filled with vehicle number | Click on “Submit Vehicle ID” button | App allows customer to enter parking space ID | Yes |
| 3 | Customer app UI | Vehicle Number field or Parking Space ID field are empty | 1. User fills the “Enter Vehicle Number” field with vehicle number 2. Click on “Start Parking” button | App shows “Please enter both vehicle number and parking space ID” | Yes |
| 4 | Customer app UI | Vehicle Number field or Parking Space ID field are filled with data accordingly.  There is no currently active parking event | Click on “Start Parking” button | App shows “Parking started for vehicle: (vehicle number).  Start Time: (start time)” message | Yes |
| 5 | Customer app UI | There is currently active parking event | Click on “Start Parking” button | App updates the times on the screen with current time | Yes |
| 6 | Customer app UI | There is active parking event | Click on “Stop Parking” button | App shows “Parking stopped for vehicle: (vehicle number).  End Time: (time parking ended)” message | Yes |
| 7 | Customer app UI | There is no active parking event | Click on “Stop Parking” button | App shows “No active parking event found for vehicle: (vehicle number) | Yes |
| 8 | Customer app UI | Customer is logged in | Click on “View Parking History” button | App displays list of customer’s parking events history | Yes |
| 9 | Customer app UI | There hasn’t been any parking events for specific vehicle | Click on “View Parking History” button | App shows “No parking history for vehicle: (vehicle number)” | Yes |

Integration Tests:

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| 10 | Customer app | Customer is not logged in | 1. Click on “Submit Vehicle ID” 2. Server verifies existence of Vehicle ID | Vehicle ID verified successfully | Yes |
| 11 | Customer app | Customer is not logged in | 1. Click on “Submit Vehicle ID” 2. Server verifies existence of Vehicle ID | Connection request fails | Yes |
| 12 | Customer app | Customer has no parking event | 1. Click on “Start Parking” 2. App sends request to server to start parking event 3. Server checks if user already has a parking event running | Parking event starts | Yes |
| 13 | Customer app | Customer has ongoing parking event | 1. Click on “Start Parking” 2. App sends request to server to start parking event 3. Server checks if user already has a parking event running | The current active parking event stops and a new one starts | Yes |
| 14 | Customer app | Customer has ongoing parking event | 1. Click on “Stop Parking” button 2. Send request to server to end parking event | Parking event stops running | Yes |
| 15 | Customer app | Customer doesn’t have ongoing parking event | 1. Click on “Stop Parking” button 2. Send request to server to end parking event | App receives error message that user has not running event | Yes |
| 16 | Customer app | Customer is logged in | Click on “View Parking History” | Check all user parking history in the database.  App receives list of user’s parking history | Yes |
| 17 | Customer app | Two or more different servers are running  no parking event is running | 1. Choose IP address and port number 2. Click on “Start Parking” 3. Change to a different server (by changing the port number) that is currently running 4. Click on “Stop Parking” | Start a parking event, then stops the parking event | Yes |
| 17 | Customer app | two or more different servers are running  no parking event is running | 1. Choose IP address and port number 2. Click on “Start Parking” 3. Change to a server (by changing the port number) that is not running 4. Click on “Stop Parking” | Start a parking event  Switch to a currently running server  then stops the parking event | Yes |
| 18 | Customer app | two or more different servers are running  no parking event is running | 1. Choose IP address and port number for a server that is not running 2. Click on “Start Parking” | Switch to a currently running server  then starts the parking event | Yes |
| 19 | Customer app | two or more different servers are running  a parking event is running | 1. Choose IP address and port number for a server that is not running 2. Click on “Start Parking” | Switch to a currently running server  then stops the current parking event and start a new one | Yes |
| 20 | Customer app | two or more different servers are running  vehicle ID is invalid | 1. Choose IP address and port number for a server that is not running 2. Click on “Start Parking” | Switch to a currently running server  then show that vehicle ID is invalid message | Yes |
| 21 | Customer app | two or more different servers are running  parking space ID is invalid | 1. Choose IP address and port number for a server that is not running 2. Click on “Start Parking” | Switch to a currently running server  then show that parking space ID is invalid message | Yes |
| 22 | Customer app | two or more different servers are running  Customer is logged in | 1. Choose IP address and port number for a server that is not running 2. Click on “View Parking History” | Switch to a currently running server  Then display a list of user’s parking history | yes |

Acceptance Tests:

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| 23 | Customer app | Customer is Logged in  There is no currently active parking event | 1. Customer selects “Start Parking” 2. Customer enters valid parking space number 3. System validates the parking space number 4. System check if there is another parking event for customer’s vehicle 5. System starts a new parking event | System starts a new parking event app and shows “Parking Started” message | Yes |
| 24 | Customer app | Customer is Logged in  Parking space ID is invalid | 1. Customer selects “Start Parking” 2. Customer enters invalid parking space number 3. System validates the parking space number | Customer app shows “invalid parking space” | Yes |
| 25 | Customer app | Customer is Logged in  There is an ongoing parking event | 1. Customer selects “Start Parking” 2. Customer enters valid parking space number 3. System validates the parking space number 4. System check if there is another parking event for customer’s vehicle | Customer app stops parking event for given customer and starts a new parking event | Yes |
| 26 | Customer app | Customer is logged in  There is an ongoing parking event | 1. Customer selects “Stop Parking” 2. System finds currently started parking event | System stops the current parking event and app shows “Parking Stopped”  message | Yes |
| 27 | Customer app | Customer is logged in  There is no active parking event | 1. Customer selects “Stop Parking” 2. System finds currently started parking event | App shows “No Parking Event Started” error message | Yes |
| 28 | Customer app | Customer is logged in  There is an ongoing parking event | System detects the maximum time for parking event has passed | System stops the current parking event with time being Start Time plus max time, and app shows “Parking Stopped” message | Yes |
| 29 | Customer app | Customer is logged in | 1. Customer selects “Get Parking Events List” 2. System checks database for parking event for customer’s vehicle | App displays table of the parking events along with the total amount of money owed by the customer | Yes |
| 30 | Customer app | Customer is logged in  There hasn’t been any parking events for specific vehicle | 1. Customer selects “Get Parking Events List” 2. System checks database for parking event for customer’s vehicle | App displays that there are no events for customer’s vehicle and show zero total amount of money owed | Yes |