2.3.2 Test Cases for First Sprint

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| **Test ID** | **Feature ID and Brief Description** | **Input Operations** | **Expected Output** | **Test Completed successfully** |
| T2.1 | Create User Registration: User registers an account with correct credentials | 1. User provides valid account name 2. User provides a password 3. User is prompted to fill in additional information | User is logged into their new account and the account is added to the database | YES – account is successfully created. New account is added to data base, but the user must still log in |
| T2.2 | Create User Registration: User registers an account with incorrect credentials | 1. User provides an account name that is already in use 2. User is prompted to change the username.  3. User cannot create an account with a username that is already in use | No account is created and account with the original username is not changed. | NO – original account is not overwritten however a new account is made with the same username and email in use. |
| T3.1 | User login: login to website with correct credentials | 1. User types in correct username and password 2. They click the ‘enter’ website button | They are logged in and brought to the home page where they can view information relevant to them | YES – the user can log in with the correct credentials |
| T3.2 | User login: login to website with wrong credentials | 1. User types in the wrong username or password 2. System states that credentials are incorrect | User can’t log in | YES – the user is blocked from logging in however they are not informed as to why |
| T3.3 | User login: login to website with no account | 1. User enters credentials 2. System states that there is no account with those credentials | User can’t log in | YES – the user is blocked from logging in however they are not informed as to why |
| T4.1 | Manage New Accounts:  Properly Display Known  Accounts in Database | 1. Test account added to database 2. Admin user searches records   for test account | Test account is found and displays correct details | NO – The account is successfully added, however there is no way to view the database without directly opening it |
| T5.1 | Manage user removal & banning: Remove an account from the system | 1. User enters account info to find correct account 2. User deletes account from the system | The selected account has been removed from the system | YES – all accounts with matching username are deleted |
| T5.2 | Manage user removal & banning: Banning an account | 1 .User enters account info to find correct account 2. User bans account | The selected account has been banned from the system | NO – account can only be removed, not banned |
| T6.1 | Make Parking Lot:  Create a parking lot | 1. Admin inputs a size for the parking lot 2. Parking lot is created | Parking lot is created and is stored in the database. | YES – the admin can create a new car park and it is added to the database. |
| T7.1 | Send/Receive Messages: Test sending message | 1. Admin user sends message to test account | Admin account confirms message sent | NO – no messaging system implemented |
| T7.2 | Send/Receive Messages: Test receiving message | 1. Admin user sends message to test account 2. Test account opens message centre | Test account confirms receipt of message | NO – no messaging system implemented |
| T8.1 | Notify Driver Arrival at  Parking Space: Test  Notification System | 1. Driver user logs in 2. Driver user reserves space 3. User arrives at parking space | Notification is sent to admin stating user has reached their parking space | YES – admin must accept or deny parking request |
| T9.1 | Notify Driver Departure from Campus: Test Notification System | 1. Driver user logs in 2. Driver user reserves space 3. User arrives at parking space   4.Driver leaves parking space and parking lot | Notification is sent to admin stating user has left their parking  space and parking lot | NO – no messaging system implemented |
| T10.1 | Find Nearest Parking Space to Destination: User requests a parking space | 1. User provides a destination 2. System provides location of nearest space | System will return the nearest space to the destination that is not already occupied or blocked. | NO – no system is implemented |
| T11.1 | Monitor Parking Spaces:  Test Monitoring Interface | 1. User selects to monitor parking spaces | User can see the parking lot and what spaces are in use and which aren’t | NO – page exists but has not been successfully implemented |
| T12.1 | Manage Parking  Payments: Display  Outstanding Payments | 1. Admin user logs in 2. Admin navigates to payments page | All outstanding payments displayed | YES – current outstanding balance is displayed |
| T12.2 | Managing Parking  Payments: Testing for  Completed Payments | 1. Driver user logs in 2. Driver reserves parking space 3. Driver pays for reserved space 4. Admin logs in 5. Admin navigates to payments page | Test case payment is marked as paid | NO – there is no way for the user to pay off outstanding payments |
| T13.1 | Calculate Appropriate Parking Charges: Test for correct Calculation based on test case | 1. Driver user logs in 2. Driver user selects a test parking space with known costs 3. Driver user is provided a price for parking space   4. Admin payments page is updated with new charge | Both driver and admin users are provided with correct calculation for cost of parking space. | YES – the more spaces reserved the higher the outstanding balance |

2.3.4 Test Cases for Second Sprint

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| **Test ID** | **Feature ID and Brief Description** | **Input Operations** | **Expected Output** | **Test Completed successfully** |
| T14.1 | Graphically Monitor Parking Spaces:  Admin requests to view parking spaces | 1. Admin requests to view parking spaces 2. System graphically displays parking spaces. | System will display the parking spaces in the correct layout | Maybe – page exists however is not currently integrated into site |
| T15.1 | Add/Remove Parking Lots: Add parking lot | 1. Admin selects to create new parking lot 2. Admin selects size of parking lot 3. Parking lot it created | System creates a new parking lot with the chosen size. | YES - new parking lots can be added with specified name and size |
| T15.2 | Add/Remove Parking Lots: Remove parking lot | 1. Admin selects existing parking lot 2. Admin selects option to delete   3 Parking lot is deleted | System will remove parking lot from the database. | NO – no way to remove currently added parking lots |
| T16.1 | Add/Remove parking spaces: Add parking space | 1.Admin user requests to add a  new parking space to the parking lot | System will add a new parking space to the parking lot | NO – no way to add or remove additional spaces |
| T16.2 | Add/Remove parking spaces: Remove parking space | 1.Admin user requests to remove  a parking space from the parking lot | System will remove a parking space from the parking lot | NO – no option to remove spaces |
| T17.1 | Block parking spaces | 1.Admin user requests to block parking space | System will block a parking space. | NO – no option to block or unblock |
| T18.1 | Send parking request: Available space | 1. User selects a parking space and requests to park there  2.System checks to see if space is available | System states that space is available | NO – User can request infinite spaces |
| T18.2 | Send parking request: Unavailable space | 1.User selects a parking space and requests to park there  2.System checks to see if space is available | System states that space is unavailable | NO – system will continue to allow for the reservation of spaces |
| T19.1 | Receive Assigned Parking Space with Map | 1. User is sent parking space  number | System will display a map with the location of the requested parking space | NO – reserved spaces cannot be viewed |
| T20.1 | Receive Parking Requests and Accept/Decline Requests: Receive parking request | 1.User sends parking request 2. System receives parking request | System should receive and display parking request | YES – admin can accept or deny requests |
| T20.2 | Receive Parking Requests and Accept/Decline Requests: Accept parking request | 1. System receives parking request 2. System checks request | System accepts and approves parking request | YES – admin can accept or deny requests |
| T20.3 | Receive Parking Requests and Accept/Decline Requests: Decline parking request | 1. System receives parking request 2. System checks request | System declines parking request | YES – admin can accept or deny requests |
| T21.1 | Assign A Specific Location to a Parking Request | 1. System receives parking request 2. System checks if requested   space is available | System assigns a specific location to the parking request | NO – no way to request specific spaces |
| T22.1 | Change assigned locations | 1.System receives a request to change parking locations | System changes assigned locations of parking spaces | NO – no way to change location |
| T23.1 | Alert Admin User for NonMatching Parking Space  and Driver GPS: Send Alert  Message | 1.Driver User Books test parking space  2.Driver user test GPS coordinates designated to not match booked parking space 3.PMS sends nonmatching notification message to admin user | Admin user receives notification message | NO – no messaging system implemented |
| T24.1 | Alert Admin when Arrival Notification Not Received:  Test for Non-Arrival  Notification | 1.Driver user books test parking space  2.Time allocation set for test parameters  3.Driver user fails to arrive at allocated time slot | PMS sends arrival failure notification message | NO – no messaging system implemented |
| T25.1 | Alert Admin When Driver  Overstays: Time Allocation  Breach Test | 1.Driver user books test parking space  2.Time allocation set for test parameters  3.Driver User logged as  overstaying allotted reservation  4.PMS sends overstay notification. | Admin user receives overstay notification | NO – no messaging system implemented |
| T26.1 | Customise Floor Plan: Test  Case Parking Lot  Customisation | 1.Admin user logs in  2.Admin user navigates to parking lots page  3.Admin user makes changes to the floor plan  3.Admin saves changes | Admin user goes to parking lots page and confirms changes have been saved | NO – page is currently not accessible |