**Use Case Testing**

1. **Log in use case**

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| --- | --- | --- |
| Main Success Scenario | Step | Description |
| A: Manager/Employee S: System | 1 | A: Enter username and password. |
| 2 | S: Validate username and password. |
| 3 | S: Allow account access to the next page. |
| Alternatives | 2a | **Username and/or password not valid.** Display error message. |

**Test Coverage:** Number of main and alternatives scenarios = 2.

100% coverage of use case.

1. **Create account use case**

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| --- | --- | --- |
| Main Success Scenario | Step | Description |
| A: Manager S: System | 1 | A: Enter username and password. |
| 2 | S: Validate username and password. |
| 3 | S: Allow account access to the next page. |
| 4 | A: Selects to create account. |
| 5 | S: Loads create account screen. |
| 6 | A: Enter username, password, confirmation password, and selects the role. |
| 7 | S: Validates if all fields are filled. |
| 8 | S: Validate if a role was selected. |
| 9 | S: Validates if both passwords are the same. |
| 10 | S: Display a successful account creation message. |
| Alternatives | 2a | **Username and/or password not valid.** Display error message. |
| 7a | **One or all fields are empty.** Display error message. |
| 8a | **A role was not selected.** Display message and ask to select a role. |
| 9a | **Passwords are not the same.** Display message and ask to re-type passwords. |

**Test Coverage:** Number of main and alternatives scenarios = 5.

100% coverage of use case.

1. **Update/delete account use case**

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| --- | --- | --- |
| Main Success Scenario | Step | Description |
| A: Manager S: System | 1 | A: Enter username and password. |
| 2 | S: Validate username and password. |
| 3 | S: Allow account access to the next page. |
| 4 | A: Selects account settings. |
| 5 | S: Load account settings screen. |
| 6 | A: Selects to load all accounts. |
| 7 | S: Load all account from the Database. |
| 8 | A: Selects one account and delete. |
| 9 | S: Deletes selected account of the database. |
| 10 | A: Selects one account and update information. |
| 11 | S: Validate if anything is changed or a field is empty. |
| 12 | S: Updates selected account information in the database. |
| Alternatives | 2a | **Username and/or password not valid.** Display error message. |
| 11a | **One or all fields are empty.** Display message and ask to re-try again. |

**Test Coverage:** Number of main and alternatives scenarios = 3.

100% coverage of use case.

1. **Generate sale prediction use case**

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| --- | --- | --- |
| Main Success Scenario | Step | Description |
| A: Manager/Employee S: System | 1 | A: Enter username and password. |
| 2 | S: Validate username and password. |
| 3 | S: Allow account access to the next page. |
| 4 | A: Selects generate sale prediction. |
| 5 | S: Load generate sale prediction screen. |
| 6 | A: Choose a date or dates to generate prediction and selects to load. |
| 7 | S: Validate input dates. |
| 8 | S: Generate an accurate prediction, display a graphical view of sales, and fill a table with average sales for each date selected. |
| Alternatives | 2a | **Username and/or password not valid.** Display error message. |
| 7a | **Invalid Dates.** Display message and ask to re-try again. |

**Test Coverage:** Number of main and alternatives scenarios = 3.

100% coverage of use case.

1. **Upload sales data use case**

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| --- | --- | --- |
| Main Success Scenario | Step | Description |
| A: Manager/Employee S: System | 1 | A: Enter username and password. |
| 2 | S: Validate username and password. |
| 3 | S: Allow account access to the next page. |
| 4 | A: Selects upload sales data. |
| 5 | S: Load upload sales data screen. |
| 6 | A: Choose a date and enter amount. |
| 7 | S: Validate input date and amount. |
| 8 | S: Uploads data in the database, close current screen, and go back to the home page screen. |
| Alternatives | 2a | **Username and/or password not valid.** Display error message. |
| 7a | **Invalid date or amount.** Display message and ask to re-try again. |

**Test Coverage:** Number of alternatives scenarios = 3.

100% coverage of use case.