## 1.1 Test Cases

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| Test case Name | TC-01 |
| Application Name | Optimizely |
| Use Case | Login |
| Input Summary | User will enter its credentials and click the login button. |
| Output Summary | SUCCESS:  User has been logged in successfully.  FAILURE:  The access has been denied and an error message will be displayed i.e. “Either username or password is incorrect.” |
| Pre-Conditions | User must enter correct login credentials |
| Post-Conditions | User logged in and navigate to its user portal. |

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| Test case Name | TC-02 |
| Application Name | Optimizely |
| Use Case | Recommendation |
| Input Summary | User will select the category and enter its location or give access to system’s location. |
| Output Summary | SUCCESS:  Recommendations will be shown to user.  FAILURE:  There are multiple errors which may occur.   * Invalid location * Server’s access in area etc.   In each case error or problem message related to it will be displayed. |
| Pre-Conditions | User must enter correct location. |
| Post-Conditions | Appropriate recommendations will be shown to user. |

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| Test case Name | TC-03 |
| Application Name | Optimizely |
| Use Case | Feedback |
| Input Summary | User will click on the “Give feedback” button and after that user will select the category and then business of which want to give reviews. |
| Output Summary | SUCCESS:  User’s feedback will store in system.  FAILURE:  There can be 2 types of error   * Business don’t exist * Either reviews or ratings are missing.   In both cases appropriate error message will be shown to user. |
| Pre-Conditions | User must enter all and correct parameters to give feedback. |
| Post-Conditions | User’s feedback will be stored and success message will be displayed. |

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| Test case Name | TC-04 |
| Application Name | Optimizely |
| Use Case | View Place Profile |
| Input Summary | User will select the category and search the business in the search bar and select that or click on the business after getting recommendation. |
| Output Summary | SUCCESS:  Business profile will be shown to user.  FAILURE:  Error reasons might be “Business not exist”.  In that case appropriate message will be shown to user. |
| Pre-Conditions | User must search for valid place/business name. |
| Post-Conditions | Business profile will be shown to user. |

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| Test case Name | TC-05 |
| Application Name | Optimzely |
| Use Case | Model Retraining |
| Input Summary | New user feedback and trained model accessed on Google Colab by Admin. Then trained model will be feed in updated user feedbacks. |
| Output Summary | SUCCESS:  Model has been trained successfully and updated recommendations are stored in database.  FAILURE:  There were problems with either user feedbacks or with the train models. |
| Pre-Conditions | Updated feedbacks must be available for retraining. |
| Post-Conditions | Model has been trained successfully and updated recommendations are stored in database. |

## 1.2 Unit Testing

In unit testing, every one of the segments of the application are exclusively tested. It is the first and most key piece of testing. In this progression, we checked the individual components of our project that execute unit errands and are segments of the task's entire work process.

* Sign-in, Sign-up of User
* View Places Profile
* Give Review and Rating
* Search Place

For unit testing we made two clients to test every part. First we test client sign in and join and check all validation related stuff. At that point after effective login, we check places profile and check right record is shown or not. Survey a spot and check whether the record is embedded in data set. Rate the spot and watch whether the rating is refreshed or not. Looked through better places with various specialities and checked the spot area on Google map.

## 1.2 Integration Testing

## Integration testing is the second step of the product testing strategy. At this degree of testing, the framework is tried subsequent to joining the different units into bunches. It is to test the deficiencies and blunders in the collaboration between the interacted units. We have not done this testing yet.

## 1.3 Acceptance testing

Acceptance testing is characterized as the last advance step for the product testing system. It is to administer whether the necessary details of the framework are met. At this progression, we gauge whether the framework under test is finished with the nuts and bolts and necessities for conclusive handling. We would do this progression toward the finish of the relative multitude of cycles to furnish a framework with appropriate details.