**Classification of Components**

Mobile Device

Authenticate login info

Reviews

Contains the reviews for the recipe

Login

Recipes

My Drinks

Ingredients

Get all of the drinks you can make

Get all of the recipes

Get the users current ingredients

**I/O For Each Component:**

Login Component

User enters his/her login information

If authenticated then server responds with user info. If not then reject message is sent back

Database will populate recipe list on app on startup

User can input his/her own recipe

My Drinks

The database will populate what kind of drinks the user can make from his/her ingredients

Recipes

If a user enters an ingredient then the database will be updated

Database will populate user’s ingredients on app startup

User can input his/her ingredients

Ingredients

Database will be updated when a user recipe is added

A user will input a review about a recipe and it will be added to the recipe’s reviews

Reviews

Recipes

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| Module | Login Component |

Incremental Testing

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| Defect No. | Description | Severity | How to Correct |
| 1 | Application should help the user recover their password if they forgot it | 2 | Add a link to have an email sent to the users email with the old password |
| 2. | If there is no internet and the username and password cannot be verified the user should not be able to use the username and password fields to login | 2 | If there is no internet connection only allow the user to click the continue without an account button |
| 3. | If there is no internet connection and the user attempts to make a new account they should be informed why a new account cannot be made | 3 | Add a custom error message to be shown when the user tries to make an account when there is no internet connection. |

Regression Testing

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| Defect No | Description | Severity | How to Correct |
| 1. | If the user logged on when there was no internet connection and the device regained connection while the user was using the app it would not let them relog in to access their account. Therefore none of the other components would work as expected. They would have to close out of the app to re login. | 2 | Add a link to the login page to allow a user who didnt log in at the beginning to log in later in the session. |

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| Module | Recipes Component |

Incremental Testing

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| Defect No. | Description | Severity | How To Correct |
| 1. | Application should not allow drinks to be made without alcohol inputed | 2 | Add verification that the alcohol field has input before sending to server |
| 2. | Application should not allow drinks to be made without mixers inputed | 2 | Add verification that the alcohol field has input before sending to server |

Regression Testing

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| Defect No. | Description | Severity | How to Correct |
| 1. | By enforcing a certain number of mixers and alcohol the database component can slow down with to many added components | 2 | Add a limit to the amount of alcohol and mixers you can add to a recipe |

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| Module | My Drinks |

Incremental Testing

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| Defect No. | Description | Severity | How to Correct |
| 1. | When a drink is added a description is shown beneath the drink. However when the description is very long it will still show the entire description which would make one drink take up a very large area on the list. | 2 | Limit the amount of characters are shown in the description beneath the drink’s title. |
| 2. | If there is no internet the area where the drinks should be would just be empty. The application should inform the user why there is no information being displayed | 3 | If the page cannot connect to the database a message is shown where the drinks are informing them of the situation. |
| 3. | The application should display a picture of a completed recipe next to the title and description | 2 | Request a picture from the database when loading the list of available drinks |

Regression Testing

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| Defect No | Description | Severity | How to Correct |
| 1. | When we added the picture feature on the mydrinks page it would request the picture from the database and the database would fail. It should return with the picture | 2 | Add an attribute to the database to allow the storing of urls to a drinks picture that is determined when the recipe is created. |

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| Module | Tomcat Web Server |

Incremental Testing

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| Defect No | Description | Severity | How to Correct |
| 1. | If the server queries the database with the username to get user information it could sometimes take abnormally long | 2 | Instead of querying with the username the user id is now used. |

Regression Testing

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| Defect No. | Description | Severity | How to Correct |
| 1. | When trying to optimize one of the queries it began to return an unexpected value which would cause the recipes page to crash | 1 | Add validation that queries are returning correctly formatted values. |

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| Module | Database Component |

Incremental Testing

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| Defect No | Description | Severity | How to Correct |
| 1. | Duplicate inserts are not allowed in the database but when one is detected and stop the primary key is still auto incremented. This would cause a slight slowdown in database performance | 3 | Write a trigger to prevent the auto incrementing of the primary key. |

Regression Testing

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| Defect No | Description | Severity | How to Correct |
| 1. | When adding this trigger some of the queries from the server would fail causing the server to return with an error message rather than the expected value | 2 | Adjust trigger to prevent running at the wrong times |