HIPO Diagram


```
                              ┌──────────┐
                              │   Main   │
                              │   Page   │
                              └──────────┘
      ┌──────┬──────────────────┬───────────┬──────────────┬──────────┐
   ┌──────┐                  ┌──────┐   ┌────────┐   ┌───────────┐  ┌─────────┐
   │ User │                  │ Food │   │ Recipe │   │Ingredients│  │ Reviews │
   └──────┘                  └──────┘   └────────┘   └───────────┘  └─────────┘
   ┌───┬────┬────┐              │           │             │
┌──────┐┌──────┐┌──────┐    ┌────────┐ ┌────────┐   ┌────────┐
│ Add  ││Log in││ Log  │    │ Search │ │ Search │   │ Search │
│ User ││      ││ out  │    └────────┘ └────────┘   └────────┘
└──────┘└──────┘└──────┘
```

Main Page
- User
  - Add User
  - Log in
    - Add Recipe
      - Delete Recipe
      - Edit Recipe
    - Search Favorites
    - Search Food
    - Search Ingredient
    - Search Recipe
  - Log out
- Food
  - Search
- Recipe
  - Search
- Ingredients
  - Search
- Reviews

View/Select Recipe
- Add Review
  - Delete Review
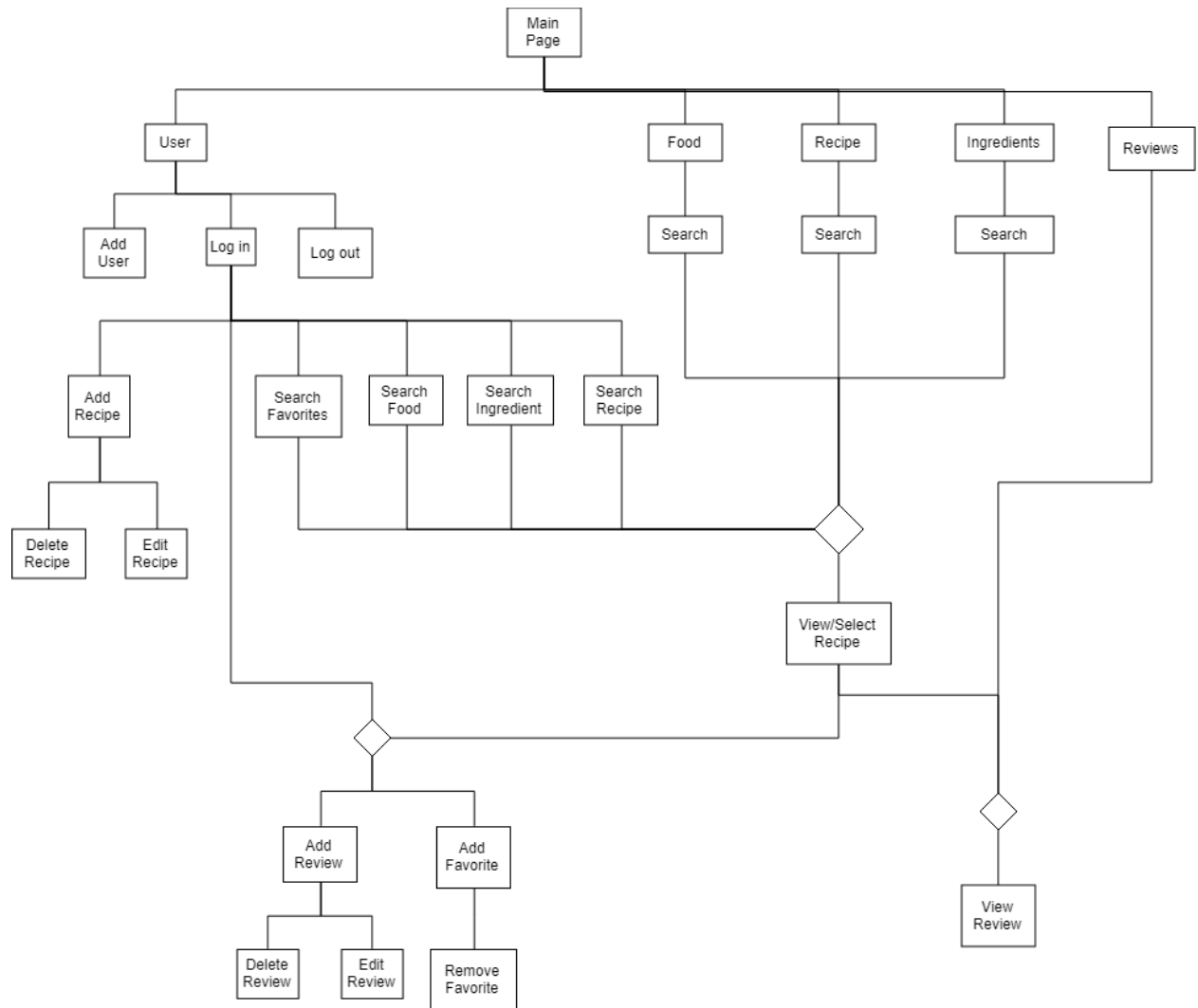 - Edit Review
- Add Favorite
  - Remove Favorite

View Review

Functions

Function: <mark>Add User</mark>
Inputs: @UserID, @UserPassword
Outputs: None
Pseudocode:
Connect to the database
Query = INSERT INTO User(@UserId, @UserPassword);
Parse Query
Execute Query
Close connection to database

Function: <mark>User Log-in</mark>
Inputs: @UserID, @UserPassword
Outputs: Confirmation message???
Pseudocode:
Connect to the database
Query = EXIST FROM User(@UserId, @UserPassword);
Parse Query
Execute Query
Close connection to database

Function: <mark>Search Favorites</mark>
Inputs: @UserID, @FavoriteID???
Outputs: Rname, RID
Pseudocode:
Connect to the database
Query = SELECT r.Name, f.ID, u.ID
FROM Recipe as r , User as u, Favorite as f
WHERE u.ID = @UserID, f.ID = @FavoriteID, r.ID = f.ID
Parse Query
Execute Query
Close connection to database
Function: <mark>Search Food</mark>
Inputs: @FoodName
Outputs: r.No r.Name r.Time r.UserID
Pseudocode:
Connect to the database
Query = SELECT r.No r.Name r.Time r.UserID
FROM Recipe as r, Food as f
WHERE r.Name = @FoodName
Parse Query

Execute Query
Close connection to database

Function: <mark>Search Recipe</mark>
Inputs: @RecipeName
Outputs: r.No r.Name r.Time r.UserID
Pseudocode:
Connect to the database
Query = SELECT r.No r.Name r.Time r.UserID
FROM Recipe as r
WHERE r.Name = @RecipeName
Parse Query
Execute Query
Close connection to database

Function: <mark>Search Ingredient</mark>
Inputs: @IngredientName
Outputs: r.No r.Name r.Time r.UserID
Pseudocode:
Connect to the database
Query = SELECT r.No r.Name r.Time r.UserID
FROM Recipe as r, ConsistOf as c, Ingredient as i
WHERE (@IngredientName = i.name) AND (c.iname = i.name) AND (c.r_num = r.No)
Parse Query
Execute Query
Close connection to database

Function: <mark>View/Select Recipe</mark>
Inputs: @RecipeID
Outputs: rec.no, rec.name, rec.time, rec.userID, rec.info, rev.uID, rev.no, rev.rating
Pseudocode:
Connect to the database
Query = SELECT rec.no, rec.name, rec.time, rec.userID, rec.info, rev.uID, rev.rec_no, rev.rating
FROM Recipe as rec, Review as rev
WHERE (rec.no = @RecipeID) AND (rec.no = rev.rec_no)
Parse Query
Execute Query
Close connection to database

Function: <mark>Add Review</mark>
Inputs: @RecipeID, @UserID, @ReviewRating
Outputs: None
Pseudocode:
Connect to the database
Query = INSERT INTO Reivew(@UserID, @RecipeID, @ReviewRating);
Parse Query
Execute Query
Close connection to database

Function: <mark>Delete Review</mark>
Inputs: @RecipeID, @UserID, @ReviewRating
Outputs: None
Pseudocode:
Connect to the database
Query = DELETE FROM Reivew
WHERE (UserID = @UserID) AND (RecipeID = @RecipeID) AND (ReviewRating = @ReviewRating);
Parse Query
Execute Query
Close connection to database

Function: <mark>Edit Review</mark>
Inputs: @RecipeID, @UserID, @ReviewRating
Outputs: None
Pseudocode:
Connect to the database
Query = UPDATE Review
          SET "attribute"
WHERE (UserID = @UserID) AND (RecipeID = @RecipeID) AND (ReviewRating = @ReviewRating);

Parse Query
Execute Query
Close connection to database

Function: Add Recipe
Inputs: @RNo, @RName, @RTime, @UserID
Outputs: None
Pseudocode:
Connect to the database
Query = INSERT INTO Recipe(@RNo, @RName, @RTime, @UserID);
Parse Query
Execute Query
Close connection to database

Function: Edit Recipe
Inputs: @RNo, @RName, @RTime, @UserID
Outputs: None
Pseudocode:
Connect to the database
Query = UPDATE Recipe
      SET "attribute"
      WHERE (RNo = @RNo) AND (RName = @RName) AND (RTime = @RTime) AND (UserID =
@UserID);
Parse Query
Execute Query
Close connection to database

Function: Delete Recipe
Inputs: @RNo, @RName, @RTime, @UserID
Outputs: None
Pseudocode:
Connect to the database
Query = DELETE FROM Recipe
      WHERE (RNo = @RNo) AND (RName = @RName) AND (RTime = @RTime) AND (UserID =
@UserID);
CASCADE
Parse Query
Execute Query
Close connection to database

Function: ==Add Favorite==
Inputs: @UserID, @RNo, @FName, @RRating
Outputs: None
Pseudocode:
Connect to the database
Query = INSERT INTO Favorite (@UserID, @RNo, @FName, @RRating)
Parse Query
Execute Query
Close connection to database

Function: ==Remove Favorite==
Inputs: @UserID, @RNo, @FName, @RRating
Outputs: None
Pseudocode: Connect to the database
Query = DELETE FROM Favorite
WHERE (UserID = @UserID) AND (RNo = @RNo) AND (FName = @FName) AND (RRating= @RRating)
Parse Query
Execute Query
Close connection to database

Data Flow Diagram

5.0 Create and add reviews for receipes

3.0 Create and add recipes to database

4.0 Modify/manage own recipes

4.0 Record favourites

1.0 Register users/admin

User (logged in)

User (logged out)

User accounts

Favourites

Ingredients

Recipes

Reviews

4.1 Find recipes using ingredients

4.0 Find recipes from search

3.0 Manage users

6.0 Manage reviews

4.0 Manage recipes

2.0 Find and login users/admin

Admin

- Review data
- user information
- Selection
- recipe information
- favourite selected
- Recipe data
- Recipe selected
- Selection
- Recipe and user data
- Review data
- user information
- Search Criteria
- Search criteria
- user information
- Account information
- Modify information
- Ingredient Data
- Ingredient List
- Recipe data
- Ingredient List
- Recipe Data
- Recipe data
- Recipe data
- Recipe data
- Selected review and modification
- Selected recipe and modification
- Review and modification selected
- Review and modification selected
- User and modification selected
- user information
- Selected user and modification
- user information