|  |  |
| --- | --- |
| Class Name | User |
| Method Name | login |
| Modifiers, Type | public boolean |
| Arguments | String username, String password |
| Error Messages | If user enters incorrect username and/or password. |
| Files Accessed | User database |
| Files Changed | none |
| Methods Called | none |
| Narrative | Prompt user to enter username and password. Takes arguments and checks them against the database. If either username or password is incorrect, send error message. If username and password are in the database, let the user log in. |

|  |  |
| --- | --- |
| Class Name | User |
| Method Name | signup |
| Modifiers, Type | public void |
| Arguments | String username, String password |
| Error Messages | If username is already taken. |
| Files Accessed | User database |
| Files Changed | User database |
| Methods Called | addUser |
| Narrative | Prompts user to enter a username and password. Takes arguments and checks them against the database. If username is already taken, returns error message. Otherwise, calls addUser. |

|  |  |
| --- | --- |
| Class Name | User |
| Method Name | addUser |
| Modifiers, Type | private void |
| Arguments | String username, String password |
| Error Messages | If information was not added to the database. |
| Files Accessed | none |
| Files Changed | User database |
| Methods Called | none |
| Narrative | Adds user information to the database. |

|  |  |
| --- | --- |
| Class Name | User |
| Method Name | getLocation |
| Modifiers, Type | private int[] |
| Arguments | none |
| Error Messages | If the user's position cannot be found. |
| Files Accessed | none |
| Files Changed | User database |
| Methods Called | showUserLocation |
| Narrative | Gets the user's current location, shows it on the map, and returns the longitude and latitude. |

|  |  |
| --- | --- |
| Class Name | User |
| Method Name | addRestroom |
| Modifiers, Type | public void |
| Arguments | String description, int rating, int restroomLocation[] |
| Error Messages | If restroom cannot be added. |
| Files Accessed | Restroom database |
| Files Changed | Restroom database |
| Methods Called | none |
| Narrative | Takes in user input about a new restroom. Adds the restroom to the database. |

|  |  |
| --- | --- |
| Class Name | User |
| Method Name | addComment |
| Modifiers, Type | public void |
| Arguments | String comment |
| Error Messages | If comment cannot be added |
| Files Accessed | Restroom database |
| Files Changed | Restroom database |
| Methods Called | none |
| Narrative | Takes in user comment as an argument. Adds the restroom to the corresponding restroom. |

|  |  |
| --- | --- |
| Class Name | User |
| Method Name | flagRestroom |
| Modifiers, Type | private void |
| Arguments | none |
| Error Messages | If restroom could not be flagged. |
| Files Accessed | Restroom database |
| Files Changed | Restroom database |
| Methods Called | deleteRestroom |
| Narrative | Adds a flag to a restroom. If the restroom has enough flags, it will be deleted. |

|  |  |
| --- | --- |
| Class Name | User |
| Method Name | flagComment |
| Modifiers, Type | private void |
| Arguments | none |
| Error Messages | If comment could not be flagged. |
| Files Accessed | Restroom database |
| Files Changed | Restroom database |
| Methods Called | deleteRestroom |
| Narrative | Adds a flag to a comment. If the comment has enough flags, it will be deleted. |

|  |  |
| --- | --- |
| Class Name | Restroom |
| Method Name | removeRestroom |
| Modifiers, Type | private void |
| Arguments | none |
| Error Messages | If restroom cannot be removed |
| Files Accessed | Restroom database |
| Files Changed | Restroom database |
| Methods Called | none |
| Narrative | Deletes a restroom from the database. |

|  |  |
| --- | --- |
| Class Name | Restroom |
| Method Name | removeComment |
| Modifiers, Type | private void |
| Arguments | none |
| Error Messages | If comment cannot be removed |
| Files Accessed | Restroom database |
| Files Changed | Restroom database |
| Methods Called | none |
| Narrative | Deletes a restroom from the database. |

|  |  |
| --- | --- |
| Class Name | Restroom |
| Method Name | findNearestRestroom |
| Modifiers, Type | private int[] |
| Arguments | int userPosition[] |
| Error Messages | If the nearest restroom cannot be found. |
| Files Accessed | Restroom database |
| Files Changed | none |
| Methods Called | none |
| Narrative | takes user's position and checks it against the restroom database to find the nearest restroom to the user's current location |

|  |  |
| --- | --- |
| Class Name | Map |
| Method Name | showUserLocation |
| Modifiers, Type | public void |
| Arguments | int userLocation[] |
| Error Messages | If cannot display user's location on map. |
| Files Accessed | none |
| Files Changed | none |
| Methods Called | none |
| Narrative | Displays the user's location on the map. |

|  |  |
| --- | --- |
| Class Name | Map |
| Method Name | showRestroomLocations |
| Modifiers, Type | public void |
| Arguments | none |
| Error Messages | If restroom cannot be displayed |
| Files Accessed | Restroom database |
| Files Changed | none |
| Methods Called | none |
| Narrative | Gets the restroom location from the restroom database, and adds it to the map. |