

## **CS 307**

**Project Title:** Autrui

### **Team 10**

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**Repository:** <http://www.github.com/mihirjham/autrui-repo>

## **Product Backlog**

**1. Problem Statement:** With the advent of technology in the daily lives of people in the past decade, it has been through many forms of uses – from being a luxury to utility to now a means of entertainment. We see that with though this transition has bought greater connectivity and access to information, it has also lost compassion somewhere down the road. The whole world of the social network seems cold and lacks benevolence. We have thought of a project idea that aims at bridging this gap.

**2. Background:** The idea of the project is inspired by the Pay It Forward Movement. The idea is to respond to a person's kindness to oneself by being kind to someone else. Our app focuses on providing a social platform where users will be able to connect through these kind deeds, and see the impact of their deed. The app will also incorporate a 'world view' to represent the global footprint of that one deed. You can view the initial concepts of these in the design mockups provided in the system model section below. Keeping altruism (hence the name - Autrui) as our central theme, we have made sure that this does not turn into be a game-like or any sort of competition based system. Anonymity of farther participants in the deed and manifesting only the user's impact helps the application maintain its focus and differentiates it from any other social media platform.

The target audience of this app includes anyone who is using a cell phone device that runs on Android – 4.4 KitKat. Other than this the user only needs to have the will to do good deeds and the curiosity to view how that one deed starts a domino effect making someone's day better.

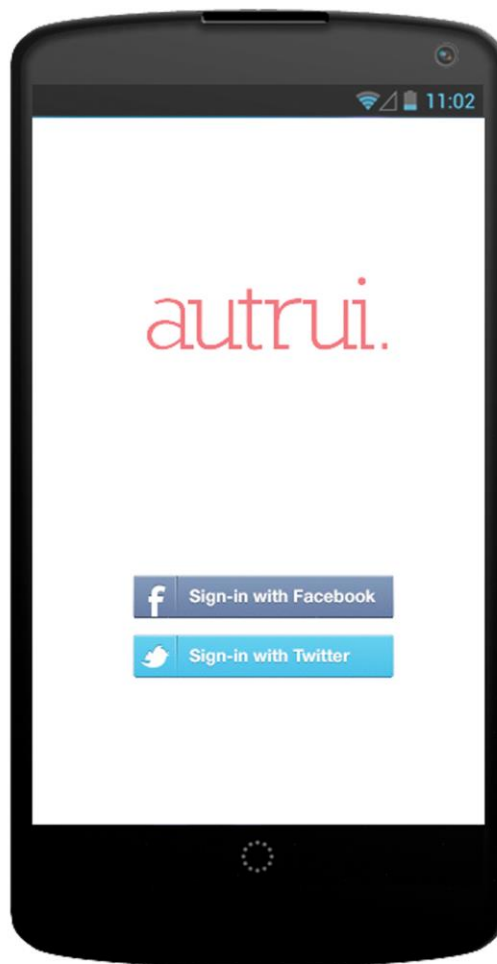
As mentioned earlier the idea of this app is based on the 'Pay It Forward Movement' of the 'Pay It Forward Organization'. The organization has its own mobile application that runs on both iOS and Android. After using the app and reading some of the customer reviews, we concluded that the app had a lot of problems ranging from a dull interface design, to lagging performance. The primitive interface seems to be one of the major reasons why this app has not hit big. Hence, we decided to offer our users with a more friendly and welcoming app with a fresh perspective that will motivate them to be altruistic in their everyday life.

### **3. System model:**

#### ***Environment:***

- Client: Android 4.4 KitKat or newer. Will be made using Java Language and Android SDK.
- Server: Amazon Web Server

***Mockup Screenshots:***



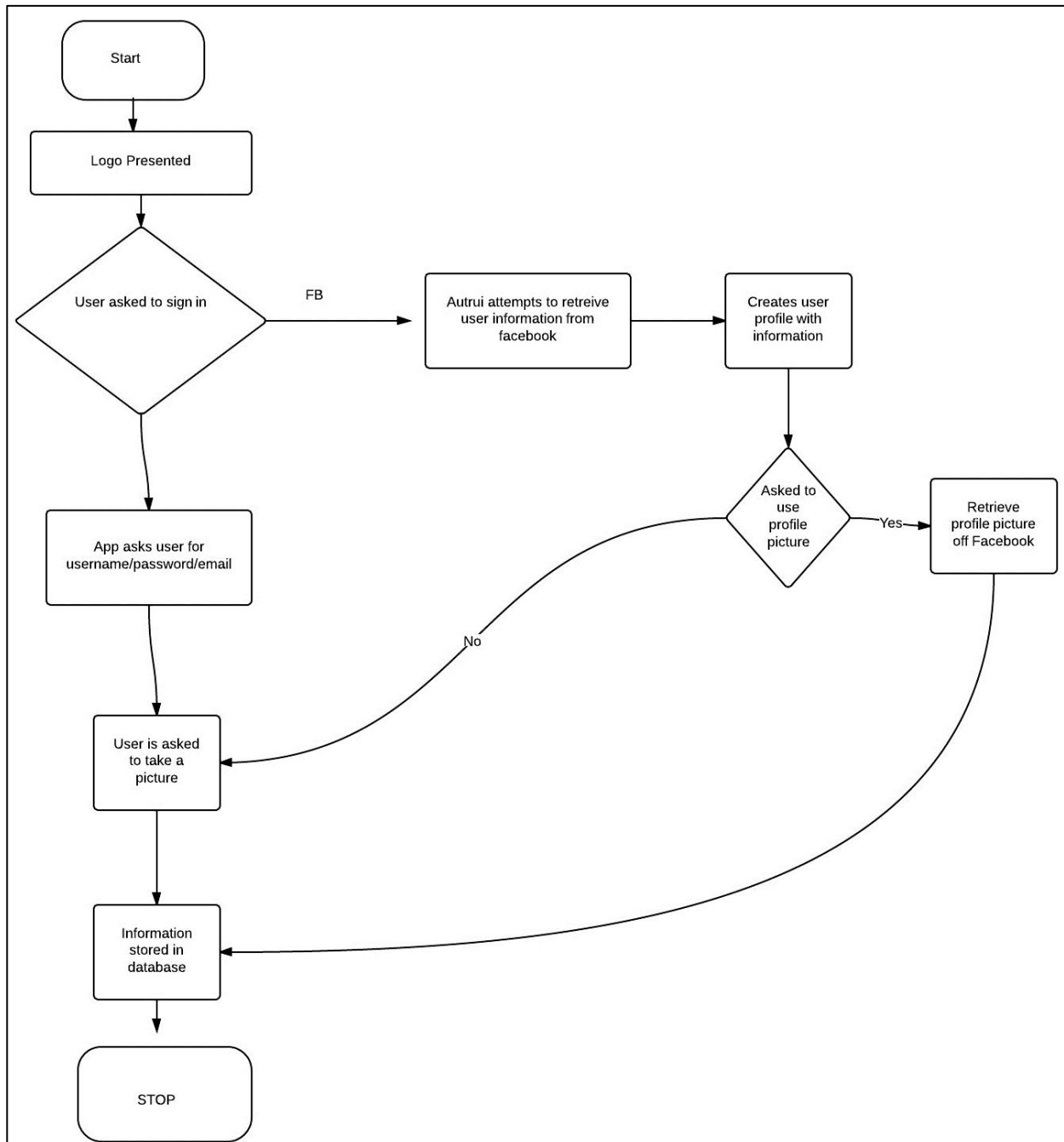




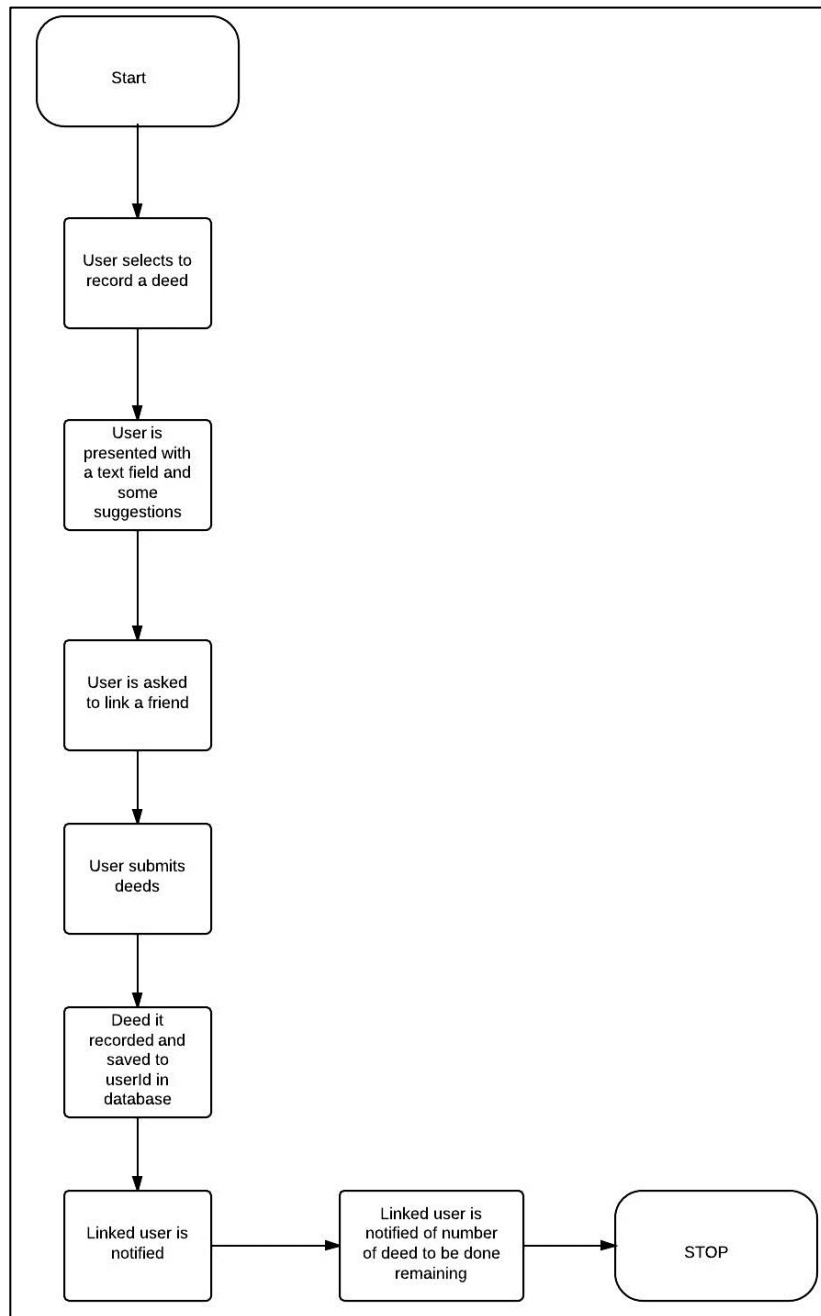


## Flowcharts:

### a. Creating a User Profile:



*b. Creating a Deed:*





**4. Requirements:** Below is a table segregating functional and non-functional requirements, based on typical user requirements, detailed by the respective use-case.

*a. Must Be Done:*

| <u>User Actions</u><br><i>As a user, one would want to:</i> | <u>Functional Requirements</u><br><i>System Responses</i>  | <u>Non-functional Requirements</u>   |
|---|--|--|
| 1. Register using Facebook.                                 |  |  |
| - Tap the 'Connect using Facebook' button.                  | - Ask for Facebook username and password and pull user data if credentials are correct, else show login failure message. | 8. App starts with welcome screen.   |
| - Confirm by tapping okay.                                  | - Pop up registration result and return to main UI with user logged in.  |  |
| 2. Create a new account.                                    |  |  |
| - Tap the register button.                                  | - Registration activity begins and information window shows up.  |  |
| - Enter username, password and email address. Next step.    | - Check username availability and create new profile if available, else prompt for new entry.                            |  |
| - Choose picture on phone.                                  | - Prompt to upload photo in separate UI.   |  |
| - Confirm registration.                                     | - Pop up registration result and return to main UI with user logged in.  |  |
| 3. Log in to my account.                                    |  |  |
| - Tap the app logo on the device to run the app.            | - Welcome screen shows up, followed by the login UI.   |  |
| - Enter username and password. Tap login.                   | - Confirm login details and log into the account if information is correct, else show failure message.                   | 9. User will be kept logged in, until he manually logs out or the device is reset. |
| 4. Reset my password.                                       |  |  |
| - Tap the app logo on the device to run the app.            | - Main page UI shows up.   |  |
| - Tap on settings button.                                   | - Show settings UI.  |  |
| - Tap edit account button.                                  | - Show account details and fields are open for editing.  |  |
| - Tap on change password.                                   | - Prompt for old and new passwords.  |  |
| - Enter old password and then new password. Tap done.       | - Save new password on database and remove old password. Display confirmation and return to settings UI.                 |  |

|  |  |   |
|--|--|---|
| 5. View tutorial on how to use the app               |  |   |
| - Tap the app logo on the device to run the app.     | - Main page UI shows up.   | 10. This should run automatically if the app is run for the first time. |
| - Tap settings button.                               | - Settings UI shows up.  |   |
| - Tap help.  | - Start five step tutorial in a separate UI.   |   |
| - Tap next or back until end of tutorial is reached. | - Change instructions according to the buttons pressed.  |   |
| - Tap on stop tutorial.                              | - Close tutorial UI and return to settings UI.   |   |
| 6. Start a deed.                                     |  |   |
| - Tap the app logo on the device to run the app.     | - Main page UI shows up.   | 11. Deed ideas displayed when the app is run.                           |
| - Tap on 'Start a deed!' button.                     | - Memo UI shows up with QWERTY keyboard pulled up.   |   |
| - Type in short memo about the deed. Tap done.       | - Confirm character limit and show successful message if under limit, else prompt for shorter response. Prompt for username for whom deed was performed. |   |
| - Enter username for whom the deed was performed.    | - Confirm user. UI with deed impact shows up.  |   |
| 7. View deed impact.                                 |  |   |
| - Tap the app logo on the device to run the app.     | - Main page UI shows up.   |   |
| - Tap My Autrui.                                     | - My Autrui UI shows up, with listings of all deeds performed.   |   |
| - Select the deed to view its impact.                | - Dynamic UI with deed impact flow diagram shows up.   |   |
| - Zoom in and out to get better view.                | - Show diagram with different zooms.   |   |

*b. Will Be Done If Time Allows:*

| <b><u>User Actions</u></b><br><i>As a user, one would want to:</i> | <b><u>Functional Requirements</u></b><br><i>System Responses</i> | <b><u>Non-functional Requirements</u></b>                    |
|--|--|--|
| 12. Be notified if location information is gathered.               |  | 15. Show timestamp notifying days since last deed performed. |
| - Tap the app logo on the device to run the app.                   | - Main page UI shows up.   |  |
| - Tap settings button.   | - Settings UI shows up.  |  |
| - Tap Boolean for location   | - Save the current preference to                                 |  |

|   |  |  |
|---|--|--|
| information gathered notification.                        | database.  |  |
| 13. Be push notified if added to a deed.                  |  | 16. Show counter with number of people affected by the deed. |
| - Tap the app logo on the device to run the app.          | - Main page UI shows up.                                       |  |
| - Tap settings button.                                    | - Settings UI shows up.  |  |
| - Tap Boolean for push notification when added to a deed. | - Save preference to database.                                 |  |
| 14. View global impact visualization of deeds.            |  | 17. Show counter with number of deeds done.                  |
| - Tap the app logo on the device to run the app.          | - Main page UI shows up.                                       |  |
| - Tap My Autrui.  | - My Autrui UI shows up, with listings of all deeds performed. |  |
| - Tap global view.  | - Dynamic UI with deed impact on a 3D globe shows up.          |  |
| - Zoom in and out to get better view.                     | - Show diagram with different zoom degrees.                    |  |

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