CSE 5324

SOFTWARE ENGINEERING PROJECT

**TITLE: Auto TasX**

**Project Plan**

TEAM - 7

1. Harikrishna Bokksum - 1001096002
2. Apeksha Bhat - 1000981003
3. Meghana Anoop - 1000981002
4. Kaustubh Mohgaonkar - 1001101770
5. Michael Ho - 1001135968

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1. **EXECUTIVE SUMMARY**

Auto TasX is a new style application which helps people to live more convenience. It can automate your phone based on the location you are in. Set a profile in our app to trigger Phone Silent mode when you’re in class, or trigger a reminder notification when you are at any place which you want to do some actions. It’s simple, just set your location by pointing it on google maps and select an action to be triggered when you enter that location and the app will do the rest! The application based on the GPS sensors which are embedded in an android mobile phone. We use Geofence for user to select the location. The feature is easier than other competitors. This apps can be a useful reminder for students, businessman even housewife.

1. **FEATURES AND IMPLEMENTATION SCHEDULE**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Feature** | **Descriptions** | **Iteration** |
| **1** | **Geofence API** | User select the location via the interface based on Geofence API | **1** |
| **2** | **Message** | The Message which is send are triggered when user enter the location | **1** |
| **3** | **Wi-Fi & Silient mode** | The Wifi & phone silient mode are triggered when user enters the location | **1** |
| **4.** | **Multiple action** | The app can complete two or more tasks at the same time | **1** |
| **4** | **Data on/off** | User can set the profile and set the profile function on or off manually | **2** |
| **5** | **DB use & schema** | Create a Database and implement save, modify, select function | **2** |
| **6.** | **Enter & Exit action** | When user enters or exits the location. The app may automatically change the setting (e.g. phone mode, reminder) | **2** |

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Feature** | **Descriptions** | **Iteration** |
| 7 | Dynamic radius | User can manually set the accurate rate of location via radius setting | 3 |
| **8** | **Edit option** | User can edit some specific items | **3** |
| **9** | **Performance** | Performance enhancement | **3** |

1. **Auto TasX COMPETITORS**

* **Overview:**

AUTOMATE IT, REMINJA, SILENT!, AUTOMAGIC and AUTOMAGIC AUTOMATIONare the similar apps. They are closely related apps to **Auto TasX**.

* **Analyze**

## [Automate It](https://play.google.com/store/apps/details?id=AutomateIt.mainPackage&hl=en)

Pros -

* Free application
* Good UI

Cons -

* Does not work with android 5.0
* Auto deletes rules several times.

## [Reminja](https://play.google.com/store/apps/details?id=com.cls.reminja.ui&hl=en)

Pros -

* Easy User Interface
* All positive reviews

Cons -

* Limited just to reminders

## [Silent!](https://play.google.com/store/apps/details?id=com.hw.silentfree)

Pros -

* Added feature to add exception to important callers

Cons -

* No other features except changing mode to Silent.

## [Automagic Automation](https://play.google.com/store/apps/details?id=ch.gridvision.ppam.androidautomagic&hl=en)

Pros -

* Positive Reviews

Cons -

* Complicated user interface includes flowcharts to set triggers.
* Requires Flowchart knowledge to use
* Paid application

1. **RISK MANAGEMENT**

**Risk:**

**List of risks in terms of likelihood times the impact is as follow: =**

* GPS function may not work when user is in the indoor.
* The GPS function may consume considerable power.
* What will happen if GPS data is unavailable? Will application reminds the user?

**Risk Mitigation:**

* New feature will supports Wi-Fi GPS model. The Wi-Fi GPS can assist to deal with without GPS function.
* We will adjust the frequency of GPS detection for power saving function.
* In this part, we consider to make a pump up menu to remind people.

1. **10. References**

<http://android-developers.blogspot.com/2014/10/appcompat-v21-material-design-for-pre.html>

<https://play.google.com/store/apps/details?id=ch.gridvision.ppam.androidautomagic&hl=en>

<https://play.google.com/store/apps/details?id=AutomateIt.mainPackage&hl=en>

<http://www.google.com/design/spec/material-design/introduction.html>