**Project Plan**

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| Name | Team03c |
| Last Reviewed Date | 17-Oct-2014 |

Contents

[Brief problem statement 3](#_Toc401336208)

[Team Members 3](#_Toc401336209)

[Team Communication 3](#_Toc401336210)

[Development Process 3](#_Toc401336211)

[Development Environment 4](#_Toc401336212)

[Project Milestones 4](#_Toc401336213)

[Usecase Assignment Details 5](#_Toc401336214)

[R1 Release Lessons 6](#_Toc401336215)

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# Brief problem statement

We represent a funding group (Investiny Corp.) chartered to create applications for the benefit of communities all around the country. The product we envision is called Tool Share. At its core, Tool Share is meant to enable neighbors in a community to be able to share items of common use. The successful implementation should make it easy to anyone wanting to participate to register and be able to share or borrow items.

The Tool Share product is intended to improve communities by providing and easy mechanism for sharing items between neighbors. We envision this to primarily consist of tool exchanges but the implementation must be easily extended to include items of different kinds.

We want a product whose emphasis is on ease of use, whose navigation is straightforward and where the status of items and users is clearly displayed.

The customer who represents Investiny Corp wants an application called Tool Share. Tool Share provides a medium that facilitates exchange of commonly used items with ease between members in a community. The primary application should be built in a way that it can be extended to cater a broader range of items

# Team Members

|  |  |
| --- | --- |
| Team F610-01C |  |
| Project Coordinator | Pooja Apparao Rahoji |
| Requirements Coordinator | Rohan Kerkar |
| Development Coordinator | Raghuram Gopalakrishnan |
|  | Ibrahim Mujhid |
| Test Coordinator | Rahul Kumar Shinde |

# Team Communication

|  |  |  |  |
| --- | --- | --- | --- |
| Day | Time | Happens | Place |
| Tuesday | 6:15 PM- 9:00 PM | Every Week | Team Rooms |
| Friday | 6:15 PM- 9:00 PM | Every Week | Team Rooms |
| Sunday | Any Available Time | Every Week | Online Meeting |

Note: Apart from the timelines mentioned above, meeting happens every day prior to deliverables handover and also as and when required.

# Development Process

Our selected process is a mix between Scrum, prototyping, and the plan-driven process. However, while we say “mix” here, the only feature from Scrum that we implement is the idea of stories-driven development in order to provide a clear flow in the development phase. The plan-driven environment is maintained by splitting development into multiple phases of planning and development. Requirements planning and design occurs first, with development only occurring when the phase is complete.

We introduced agility to this process by implementing prototyping within these phases. Each phase of planning and development will contain multiple iterations within, where a prototype is built and expanded based upon the review of the team members.

# Development Environment

IDE: Visual Studio 2013 Professional Edition.

Language: Python 3.4, JavaScript, HTML, CSS, Jquery

Framework: DJango 1.7

Front End Tools: Bootstrap

Django Packages: Pillow PIL 2.6, django-widget-tweaks 1.3

Repository: SVN

Database: SQLite3

Database Browser: SQLite Manager 0.8.1

Browsers: Chrome, IE, Firefox

UML design software: StarUML

Project Plan Software: Smartsheet

# Project Milestones

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S. No | Task | Internal Deadline | External Deadline | Release | Deliverable |
| 1 | Project Plan and Requirements Discussion | 9-Sep-14 | 12-Sep-14 | R1 | No |
| 2 | Project Plan and Requirements Integration | 10-Sep-14 | 12-Sep-14 | R1 | No |
| 3 | Project Plan and Requirements Document Review | 11-Sep-14 | 12-Sep-14 | R1 | Yes |
| 4 | Design review | 25-Sep-14 | 26-Sep-14 | R1 | Yes |
| 5 | Database Design | 19-Sep-14 | 26-Sep-14 | R1 | Yes |
| 6 | Class Diagram | 24-Sep-14 | 26-Sep-14 | R1 | Yes |
| 7 | Architectural Design | 23-Sep-14 | 26-Sep-14 | R1 | Yes |
| 8 | Prototype | 24-Sep-14 | 26-Sep-14 | R1 | Yes |
| 9 | Sequence Diagram | 24-Sep-14 | 26-Sep-14 | R1 | Yes |
| 10 | Components and Functions | 24-Sep-14 | 26-Sep-14 | R1 | Yes |
| 11 | Design Integration | 25-Sep-14 | 26-Sep-14 | R1 | No |
| 12 | Environment Setup Knowledge Transfer Session | 29-Sep-14 | NA | NA | NA |
| 13 | R1 Test Plan Discussion | 6-Oct-14 | 24-Oct-14 | R1 | No |
| 14 | R1 Release Development | 4-Oct-14 | 8-Oct-14 | R1 | No |
| 15 | R1 Peer Review | 7-Oct-14 | 8-Oct-14 | R1 | No |
| 16 | Test Plan Discussion | 21-Oct-14 | 24-Oct-14 | R2 | No |
| 17 | Test Plan Document Review | 23-Oct-14 | 24-Oct-14 | R2 | Yes |
| 18 | R2 Release Development I | 02-Nov-14 | 8-Dec-14 | R2 | Yes |
| 19 | R2 Release Testing I | 10-Nov-14 | 8-Dec-14 | R2 | Yes |
| 20 | Beta Release Base lining | 13-Nov-14 | 17-Nov-14 | R2 | Yes |
| 21 | Beta Release Testing | 14-Nov-14 | 17-Nov-14 | R2 | Yes |
| 22 | R2 Release Development II | 16-Nov-14 | 8-Dec-14 | R2 | Yes |
| 23 | R2 Release Testing II | 25-Nov-14 | 8-Dec-14 | R2 | Yes |
| 24 | Cross Team Testing Plan | 28-Nov-14 | 1-Dec-14 | R2 | Yes |

# Usecase Assignment Details

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Usecase Number | Usecase Name | Developer | Tester | Estimated Development Deadline | Release |
| UC-01 | Registration | Raghuram- Ibrahim | Rohan | 4-Oct-14 | R1 |
| UC-02 | Account Management - change personal info | Pooja- Raghuram | Rahul | 4-Oct-14 | R1 |
| UC-03 | Account Management - change user preferences | Pooja- Ibrahim | Raghuram | 4-Oct-14 | R1 |
| UC-04 | Community Shed creation | Ibrahim- Rahul | Pooja | 4-Oct-14 | R1 |
| UC-05 | Tool Management – registration | Rohan- Rahul | Ibrahim | 4-Oct-14 | R1 |
| UC-06 | Sharing – from Home | Rohan | Pooja | 26-Oct-14 | R2 – I |
| UC-07 | Sharing – from Community Shed | Rahul | Ibrahim | 26-Oct-14 | R2 – I |
| UC-08 | Sharing – change location of tool | Rahul | Raghuram | 02-Nov-14 | R2 – I |
| UC-09 | Sharing – change availability | Raghuram | Rohan | 26-Oct-14 | R2 – I |
| UC-10 | Sharing – approving a borrower | Rohan | Rahul | 02-Nov-14 | R2 – I |
| UC-11 | Tool Listing – availability | Raghuram | Ibrahim | 02-Nov-14 | R2 – I |
| UC-12 | Borrowing - request | Pooja | Rahul | 26-Oct-14 | R2 – I |
| UC-13 | Borrowing – returning | Ibrahim | Rohan | 26-Oct-14 | R2 – I |
| UC-14 | Tool Management – deactivation and reactivation | Ibrahim | Pooja | 16-Nov-14 | R2 - II |
| UC-15 | Tool Management – Status | Ibrahim | Raghuram | 16-Nov-14 | R2 - II |
| UC-16 | Community Statistics | Pooja | Raghuram | 16-Nov-14 | R2 - II |

**Added Functionality:**

1. We implemented an added functionality for change/reset password in the R2 phase.

# R1 Release Lessons

Below are the lessons learnt as a part of R1 Release and the steps taken to mitigate the issue during R2 Release

1. Delayed start of development phase.

* We have decided to start the development early. We are using Smartsheet to ensure adherence to internal deadlines thereby alleviating slippages in deadline.

1. Concentration of coding skills in one or two persons.

* Knowledge transfer sessions and coding meet up.

1. Learning and developing concurrently in a new language.

* Now that we have gained coding knowledge during the R1 development process, will help us reduce the problem of concurrent development and learning.

1. Communication gap with respect to timely sharing of development problems.

* Peer tracking to ensure timely development problem resolution faced by team members.

1. Adequate time was not spent on testing during R1.

* With the test plan in place and adequate time dedicated for testing we will be able to test the product more thoroughly.