PROJECT PLAN

Tic-Tac-Toe Project
Team 4

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Document Change Control

Revision Number	Date of Issue	Author(s)	Brief Description of Change

1. Project Overview

This project is based on the simple game of Tic-Tac-Toe. In Tic-Tac-Toe game two players alternately put Xs and Os in compartments of a figure formed by two vertical lines crossing two horizontal lines. Each player tries to get a horizontal, vertical, or diagonal row of three Xs or three Os before the opponent does. This program will be compatible with desktop and android mobile.

The project development includes three parts:

- 1- A stand-alone Java application that is able to show the board and draw an "X" or an "O" where the user clicks
- 2- A Java mobile application that works on Android devices for the full Tic-Tac-Toe game (two human players)
- 3- Two player computer version of the game against a computer player that uses a heuristic to attempt to beat the human player.

2. Roles and Responsibilities

The following table shows the leader of each division of the project team:

Project Role	Responsibilities	Assigned to
Project Manager	To ensure the successful initiation, planning, design, execution, monitoring, controlling and closure of the project	Shidokht Hejazi Sepehr
Documentation Lead	Manage availability and verification of materials, prepare necessary documents in coordination with the team	Ramanjeet Kaur Gill
Development Lead	To ensure the features developed by the whole team are produced to the highest possible quality in the fastest possible time	Sushil Patil

The structure of the team is as follows:

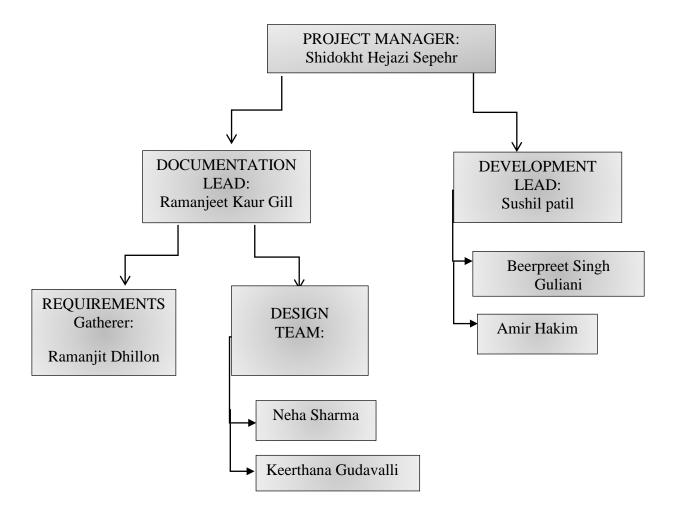


Figure 1: Team structure

3. Work Plan

3.1 Work Breakdown Structure

The WBS for this project can be found in the Gantt chart in the next section. Project tasks, their estimated duration, predecessor and successor are demonstrated in the diagram.

3.2 Project Schedule

The project starts on 5th of May and is set to finish on June 3rd. The project schedule is depicted using a Gantt chart. The Microsoft Project file for the project schedule is attached as well. Figure 2 displays the high level project schedule.

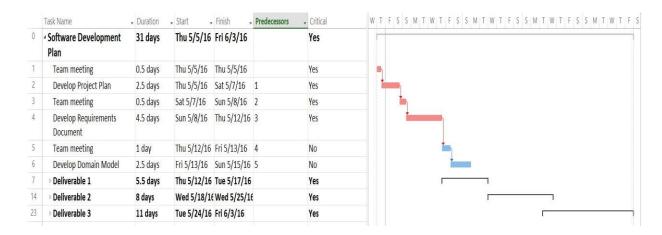


Figure 2: high level project schedule

Tasks belonging to each deliverable is displayed in Figure 3. The critical path is shown in red and tasks on the critical path are indicated in the Critical column.

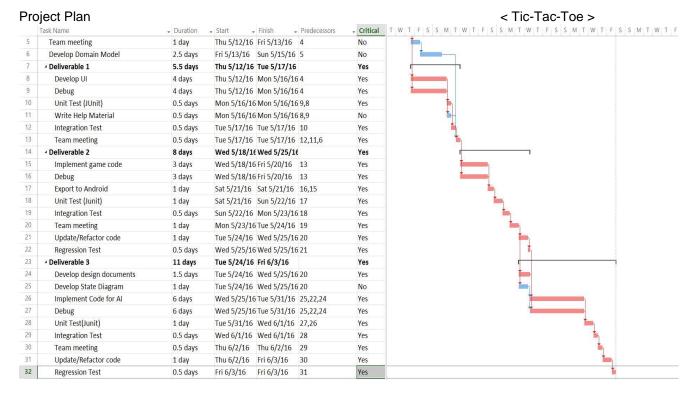


Figure 3: Low level project schedule

4. Project Requirements

4.1 Software

- Eclipse IDE
- Android Studio 2.1

4.2 Hardware

- 250 MB Ram
- 80 GB Hard disc
- P4 processor

5. Milestones & Deliverables

Project's milestones and corresponding deliverables are as follows:

Project Phase	Milestone	Deliverable	Date
Inception	Project Plan	Project Plan,	2016/05/06
	Submission	Project Charter	
Elaboration	Requirements	Requirement	2016/05/13
	Document	document	
	submission		
	Domain Model	Domain Model	2016/05/20
	submission	Diagram	
Construction	End of construction	Deliverable 1: User	2016/05/18
	of User Interface	interface of game	
	End of construction	Deliverable 2: Tic-	2016/05/26
	of android app	Tac-Toe android	
		app	
	End of Unit Test on	Unit Test Report	2016/05/27
	the program and		
	documenting		
	results		
	End of Design	State Diagram for	2016/05/26
	related to AI	heuristic	
	End of AI	Deliverable 3: Tic-	2016/06/03
	construction	Tac-Toe game with	
		the functionality to	
		play against the	
		computer	
Transition	Project	Presentation slides,	TBD
	Demonstration	Game	

6. Technical Process Plans

6.1 Development Process

The Rational Unified Process which is an iterative development process is chosen. Tasks for this process are based on the scope and project milestones.

6.2 Methods, Tools, and Techniques

This project will be developed in Java using Eclipse IDE as the main tool for development and testing. GitHub will be used to host the project repository and also for version control.

In order to convert the program to android, android studio will be used.