

Table 1: Revision History

Date	Developer(s)	Change
Sept 25, 2018	Vaibhav, Usman, Andy	Worked on part 1 to 4
Sept 27, 2018	Vaibhav, Usman, Andy	Worked on part 4 to 8
Sept 27, 2018	Vaibhav	Added the information from the meeting documents to the LaTeX file
Sept 28, 2018	Andy	Proof of concept, Git workflow, Final editing and formatting
Sept 28, 2018	Usman	Updated proof of concept

SE 3XA3: Development Plan

Title of Project

Team # 30, VUA30
Vaibhav Chadha , chadhav
Usman Irfan , irfanm7
Andy Hameed , hameea1

1 Team Meeting Plan

Meetings will be held **twice a week** at the following times:

- Mondays 5:30 - 6:30 pm at KTH Computer Labs
- Wednesdays 12:30 to 2:00pm at Health science library

1.1 Roles and Agenda

Chair: Andy Hameed

- Responsible for creating the agenda and selecting topics that pertain to all team members
- Agenda items will be listed as questions

Notetaker: Usman Irfan

- Responsible for taking meeting minutes
- Meeting decisions will be summarized in a statement at the end of the meeting

Timekeeper: Vaibhav Chadha

- Keeps track of time in case we are spending too much time on one topic

2 Team Communication Plan

Main source of communication is **Facebook Messenger**. Phone and texting will be used as a backup in case of urgent matters.

Andy Hameed: 647-927-6093 Usman Irfan: 416-878-7844 Vaibhav Chadha: 647-454-5182

3 Team Member Roles

Vaibhav Chadha:

- Latex Documentation
- Analyst - makes sure the requirements of the clients are met through the software
- gantt chart management

Usman Irfan:

- Scribe
- technology research
- operation manager -ensures project development is running smoothly and software is being developed according to milestones

Andy Hameed:

- Final editing
- latex documentation
- team leader

All:

- GIT project management

4 Git Workflow Plan

We will be using the Git Feature Branch Workflow to manage the software development. Using branches, each team member is capable of working on different modules or sections of the software at the same time in localized branches, before pushing their changes to the master branch.

5 Proof of Concept Demonstration Plan

The original project is built using javascript, HTML and CSS in contrast to our development plan using python and the kivy GUI library. Since we are using an OOP language, we will be able to create classes different component of the snake game such as the snake unit block, snake body, and snake bate. The hardest part of the implementation will be the movement of the snake according to the

user's keyboard inputs, and second to that would be the process of expanding the snake once an a food item is captured. Besides that, the interface may be difficult to implement in python but could be simple with the use of a python framework such as PyQt5. Once our game application has been developed the next part would be test the project and for that we will be using pytest, since our backend language is python this will help us test all possible functions and aspects. The functions that will be difficult to test would be to see if the snake eats the food, does the food appear at random locations after eaten by the snake and if the snake tries to cross the maze does it die. Last but not least, portability would not be an issue for this application as it is an online application it can easily be accessible by any computing device.

6 Technology

Coding Language: Python, Kivy for GUI
IDE: IDLE scripting
Testing: PyUnit testing
Documentation: Doxygen

7 Coding Style

We will be using the Google Python Style Guide for our coding style

8 Project Schedule

Please see teh following pages for the project schedule in the form of a gantt chart

3XA3: Team Project

27-Sep-2018

<http://>

Project manager

Project dates

25-Sep-2018 - 7-Dec-2018

Completion

0%

Tasks

19

Resources

5

Developing the classical Snake game using python and front-end development languages.

Tasks

Name	Begin date	End date
Development Plan	25/09/18	28/09/18
Team Meeting Plan	25/09/18	25/09/18
Team Communication Plan	25/09/18	25/09/18
Copy_Team Communication Plan	25/09/18	25/09/18
Team Member Roles	25/09/18	25/09/18
Git workflow plan	25/09/18	25/09/18
Proof of Concept	26/09/18	26/09/18
Technology	26/09/18	26/09/18
Coding Style	27/09/18	27/09/18
Project Schedule	27/09/18	27/09/18
Project review	28/09/18	28/09/18
Requirements Document Revision	28/09/18	05/10/18
Proof of Concept Demonstration	08/10/18	16/10/18
Test Plan Revision	17/10/18	26/10/18
Design & Document Revision	29/10/18	09/11/18
Revision 0 Demonstration	12/11/18	13/11/18
Final Demonstration	19/11/18	27/11/18
Peer Evaluation - Final Demo	27/11/18	30/11/18
Final Documentation	06/12/18	06/12/18
Problem Statement		
Development Plan		
Requirements Document		
Design Document		
Test Plan		
Test Report		
Users Guide (optional)		
Source Code		

Resources

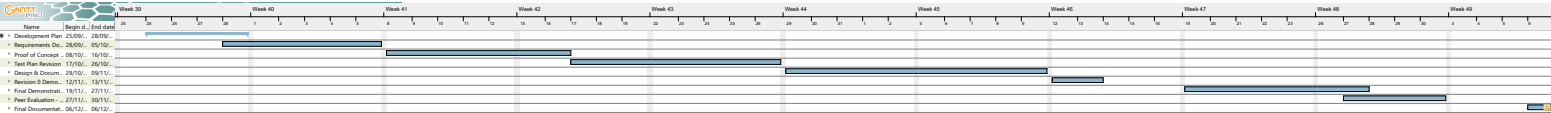
Name	Default role
Andy	undefined
Usman	undefined
Vaibhav	undefined
Varun Hooda	TA
Dr. Bokhari	Course Professor

3XA3: Team Project

27-Sep-2018

Gantt Chart

4



3XA3: Team Project

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Resources Chart

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[illegible]

9 Project Review