Table 1: Revision History

Date	Developer(s)	Change
2016/09/29	Shady Nessim	Rough Draft
2016/09/29	John-Paul Dakran	Revision #1
2016/09/29	Kareem Abdel Mesih	Revision #2
2016/09/30	Shady Nessim	Linked Gantt Chart
2016/09/30	All	Final Revision
2016/09/30	Shady Nessim	Linked to Gantt Chart

SE 3XA3: Development Plan
DNA Says

Team 10, Team Name: DNA
Kareem Abdel Mesih (abdelk2)
John-Paul Dakran (dakranj)
Shady Nessim (nessimss)

1   Team Meeting Plan

All documents have to be in paragraph format with the exception of lists. Please convert every section into paragraphs. Also, this file did not compile which is absolutely not acceptable. There was obviously a merge conflict, these need to resolved by your team. See the commented lines that include the text "HEAD" to fix. Consult online resources on how to deal with them as they arise. - CM

- When- Wednesdays at 10:30 AM - 11:20 AM
- Where- ETB Cafe
- Frequency- Every week, unless it is unnecessary
- Roles:

  Kareem

    - Record the required soundclips
    - Create the required shapes and buttons
    - Program the logic/back-end
    - Prepare meeting discussions

  John-Paul

    - LaTeX preparations and organization
    - Program the user interface/front-end

  Shady

    - Git preparations and organization
    - Test the code and maintain it

- Rules for Agendas

    - Kareem will chair the meetings. Requirements for chair need to be specified - CM

    - Take turns to record minutes, written statement and homework.

2   Team Communication Plan

Provide deeper detail, paragraph format - CM

- Git Repository: share project files

- Email/Facebook Messenger: share other files

- Phone/SMS: discussions, questions and tips

- Issue Tracker: issues that come up

3   Team Member Roles

- Leader: Kareem

- Scribe: different person every meeting What method for deciding will you use? - CM

- Knowledge and Experience (1-7):

  - Kareem- Documentation: 7, Git: 2, LaTeX: 3, Technology: 7 What *technology* are you referring to? Provide detail on how to get each team member to a level that is appropriate - CM

  - JP- Documentation: 5, Git: 5, LaTeX: 3, Technology: 6
  - Shady- Documentation: 5, Git: 4, LaTeX: 2, Technology: 5

- Roles: (as stated before) Provide section number or title - CM

  Kareem

  - Record the required soundclips
  - Create the required shapes and buttons
  - Program the logic/back-end
  - Prepare meeting discussions

  John-Paul

  - LaTeX preparations and organization
  - Program the user interface/front-end

Shady

- Git preparations and organization
- Test the code and maintain it

4 Git Workflow Plan

Find pattern name for what you are describing / using and provide rationale - CM

- All issues will be posted on the issue tracker.

- Descriptive commit messages will be used when committing to Git.

- Milestones will be set, along with their expected completion date and posted on Git for all group members to be aware of.

- Labels will be used to prioritize and organize issues, and merge requests when needed.

5 Proof of Concept Demonstration Plan

What will the game have to do prior to the demonstration date? What requirements need to be fulfilled? - CM

- The implementation of this project should not be difficult, however the process of recording the sounds will be time consuming.

- Testing should also not be difficult, as strings will be used and compared to test the addition of new moves to the previous pattern.

- Testing with family and friends will play an integral role in determining the functionality of the program.

- This code will run on any platform that can run Python.

- Pygame is required to develop this project. It is simple to install once one knows which versions are compatible with the current version of Python (3.5).

Overcoming Risks: With regards to compatibility issues, the latest pygame was released in 2009, which fortunately enough is compatible with the current Python version available. However, if Python releases a new update, it might not be compatible anymore. The option to download an older version of Python is still available however, and can be used to continue the project. In fact, there would be no need to update, if one happens to be available.

6 Technology

Include Documentation generation for python code - CM

- Python will be used to develop this project.

- It will run in its basic IDE Version 3.5. Do you mean IDLE? - CM

- Framework testing will be automated to test the different cases and outcomes of the game. Family and friends will test the overall functionality and performance of the game.

- LaTeX will be used to generate required documents.

7 Coding Style

It is common to use an online coding style from Google or Mozilla and to adjust to your teams needs. Do this to have full coverage. - CM

- Descriptive variable names This rule is vague - CM

- Descriptive function names

- Consistency in spacing:
  - One space before and after the operators
  - No spaces on the insides of any brackets
  - One empty line to separate blocks
  - One space before line comments
  - No spaces in between block comment and code blocks

- Comments
  - Descriptive
  - Not too short of a sentence What is too short? - CM

  - Not everywhere, only when required

8 Project Schedule

More detailed Tasks, especially ones pertaining to the project specfically - CM

- Gantt Chart

- Gant Project File : https://gitlab.cas.mcmaster.ca/dakranj/DNA_Says/blob/master/Doc/DevelopmentPlan/GanttChart.gan

9 Project Review

- Reflection?

- What went well?

- What did not go well?

- Modifications to the development plan?

- Modifications to team meetings, roles and communication? Time management?