3XA3 Project 12-Apr-2021

McMaster http://

Project manager

**Project dates** 18-Jan-2021 - 14-Apr-2021

Completion0%Tasks32Resources3

This project is for the course 3XA3 at McMaster University. The main objective of this project is to add to an open-source project of Checkers while also appropriately following the software project life-cycle.

## Tasks

| Name   | Begin date | End date |
|--|------------|----------|
| Team Formation   | 18/01/21   | 18/01/21 |
| Project Approval   | 25/01/21   | 29/01/21 |
| Problem Statement  | 27/01/21   | 29/01/21 |
| Development Plan   | 01/02/21   | 05/02/21 |
| Gnatt Chart  | 01/02/21   | 05/02/21 |
| Requirements Document  | 08/02/21   | 12/02/21 |
| Proof of Concept   | 15/02/21   | 23/02/21 |
| Creating GUI   | 15/02/21   | 23/02/21 |
| Creating Assets (Images for GUI)   | 15/02/21   | 23/02/21 |
| Integrating new GUI with existing project                                | 15/02/21   | 23/02/21 |
| Test Plan  | 24/02/21   | 05/03/21 |
| Unit Testing   | 24/02/21   | 05/03/21 |
| Integration Testing  | 24/02/21   | 05/03/21 |
| Design & Document  | 08/03/21   | 17/03/21 |
| MG   | 08/03/21   | 11/03/21 |
| MIS  | 12/03/21   | 17/03/21 |
| Demonstration  | 18/03/21   | 24/03/21 |
| Restructure Code & Modularize classes                                    | 18/03/21   | 24/03/21 |
| Fix Checkers Logic   | 18/03/21   | 24/03/21 |
| Optimize AI (Fix Minmax to use new game logic)                           | 18/03/21   | 24/03/21 |
| Fix GUI (highlight pieces/valid-moves, fix new-game button and tutorial) | 18/03/21   | 24/03/21 |
| Final Demonstration  | 25/03/21   | 02/04/21 |

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# Tasks

| Name  | Begin date | End date |  |
|---|------------|----------|--|
| Testing                                     | 25/03/21   | 02/04/21 |  |
| 2-Player Game                               | 25/03/21   | 02/04/21 |  |
| Fix King logic                              | 25/03/21   | 02/04/21 |  |
| Update GUI (Messages, 2-player game option) | 25/03/21   | 02/04/21 |  |
| Optimize AI                                 | 25/03/21   | 02/04/21 |  |
| Final Documentation                         | 05/04/21   | 13/04/21 |  |
| MIS   | 05/04/21   | 13/04/21 |  |
| MG  | 05/04/21   | 13/04/21 |  |
| SRS   | 05/04/21   | 13/04/21 |  |
| Test Plan & Test Report                     | 05/04/21   | 13/04/21 |  |

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#### Resources

| Name                    | Default role |
|-------------------------|--------------|
| Ardhendu Barge          | developer    |
| Dylan Smith             | developer    |
| Thaneegan Chandrasekara | developer    |

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### **Gantt Chart**

| GAN; 2021     |          |          |          |          |          |          |          |          |          |          |          |          |          |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Na B E Week 4 | Week 5   | Week 6   | Week 7   | Week 8   | Week 9   | Week 10  | Week 11  | Week 12  | Week 13  | Week 14  | Week 15  | Week 16  | Week 17  |
| •             | 24/01/21 | 31/01/21 | 07/02/21 | 14/02/21 | 21/02/21 | 28/02/21 | 07/03/21 | 14/03/21 | 21/03/21 | 28/03/21 | 04/04/21 | 11/04/21 | 18/04/21 |
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#### **Resources Chart**

| GANTT. project          | 85           | 2021     |          |                    |                    |                    |                                       |                     |                     |                     |                     |                     |                     |                     |                     |
|-------------------------|--------------|----------|----------|--------------------|--------------------|--------------------|---------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Project                 |              |          | Week 5   | 1,                 |                    |                    | , , , , , , , , , , , , , , , , , , , | 1 40                |                     |                     |                     |                     |                     |                     |                     |
| Name                    | Default role | Week 4   | 24/01/21 | Week 6<br>31/01/21 | Week 7<br>07/02/21 | Week 8<br>14/02/21 | Week 9<br>21/02/21                    | Week 10<br>28/02/21 | Week 11<br>07/03/21 | Week 12<br>14/03/21 | Week 13<br>21/03/21 | Week 14<br>28/03/21 | Week 15<br>04/04/21 | Week 16<br>11/04/21 | Week 17<br>18/04/21 |
|                         |              | 17/01/21 |          | 31/01/21           | 07/02/21           | 14/02/21           |                                       |                     | 07/03/21            | 14/03/21            | 21/03/21            | 28/03/21            | 04/04/21            | 11/04/21            | 18/04/21            |
| 🛨 🍳 Ardhendu Barge      | developer    |          | 33% 67%  |                    | 33%                | 80%                | 80% 33%                               | 33%                 |                     |                     | 75%                 | 75%                 |                     |                     |                     |
| Dylan Smith             | developer    |          | 33% 67%  |                    | 33%                |                    | 33%                                   | 33%                 |                     |                     | 75%                 | 75%                 |                     |                     |                     |
| Thaneegan Chandrasekara | developer    |          | 33% 67%  |                    | 33%                | 80%                | 80% 33%                               | 33%                 |                     | 50%                 | 75%                 | 75%                 |                     |                     |                     |