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# PineSweeper

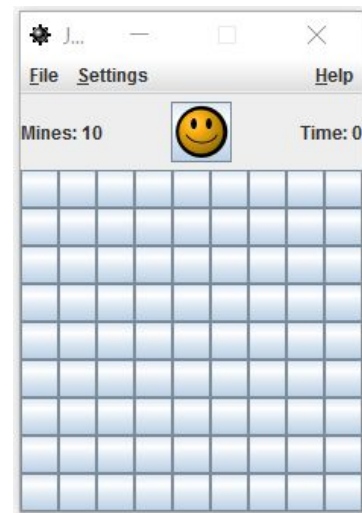
## Team 7

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Vishesh Gulatee  
Varun Rathore

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# Purpose & Scope

- Purpose
  - Provide Entertainment
  - Stimulate hand/eye coordination
- Scope
  - Replicate open source reference: *JSweeper*
  - Adhere to the software development model



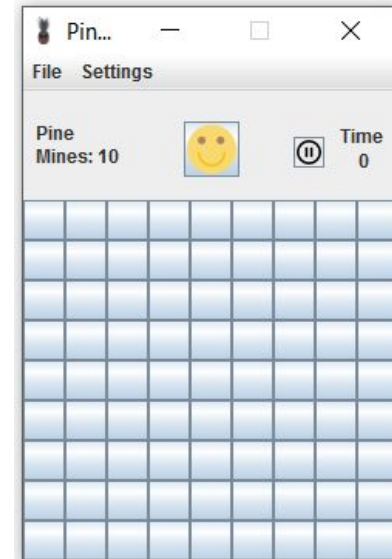


# Development Strategy

- Communication:
  - Weekly Meetings/Video Conferencing
- Documentation:
  - LaTeX
  - Comments and Javadocs
- Control:
  - Forked Branches (based on MVC Structure)

# Design

- MVC architectural design
- Various difficulties
- Numerous colour schemes
- Pause & resume game



# Coding Technology

- Java:
  - 100% of the implementation was programmed with Java
  - Object Oriented Programming and GUI
- Others: Git
  - Control System
  - Integrated with Eclipse IDE
- Others: TeX
  - Content vs. Format



L<sup>A</sup>T<sub>E</sub>X

# Features [Maintainability]

- Maintainability:
  - Modular Design
  - Documentation of modules
  - Design For Change
  - Unit Testing the Model (Logic)

# Features [Portability]

- Operating system independent
  - Runs on OSX, Windows, and Linux
- No installation necessary
  - Single JAR file





# Testing

- JUnit testing
- Manual testing
- Simulated testing
- Usability survey

# Final Remarks

- Numerous improvements over original
  - MVC architectural design
  - Numerous colour schemes
  - Pause/resume timer feature
- Future features
  - Save/load game with set user preferences
  - High scores
  - Alter grid shapes



**Demonstration**

Questions?

