

# Build 2 Review - Advanced Programming Practices

Team 11

# Architectural Design

- MVC Architecture to Create the Different Modules of the Project
- Main Modules include
  - Creatures MVC
  - Grid Cell MVC
  - Main Screen MVC
  - Map Chooser MVC
  - Map Creation MVC

# Design Patterns

Mainly Focused on MVC

- Singleton Pattern for Main Screen Singleton
  - Observer Pattern for Shop Controller and Key Controller
  - MVC Pattern for Entire Project
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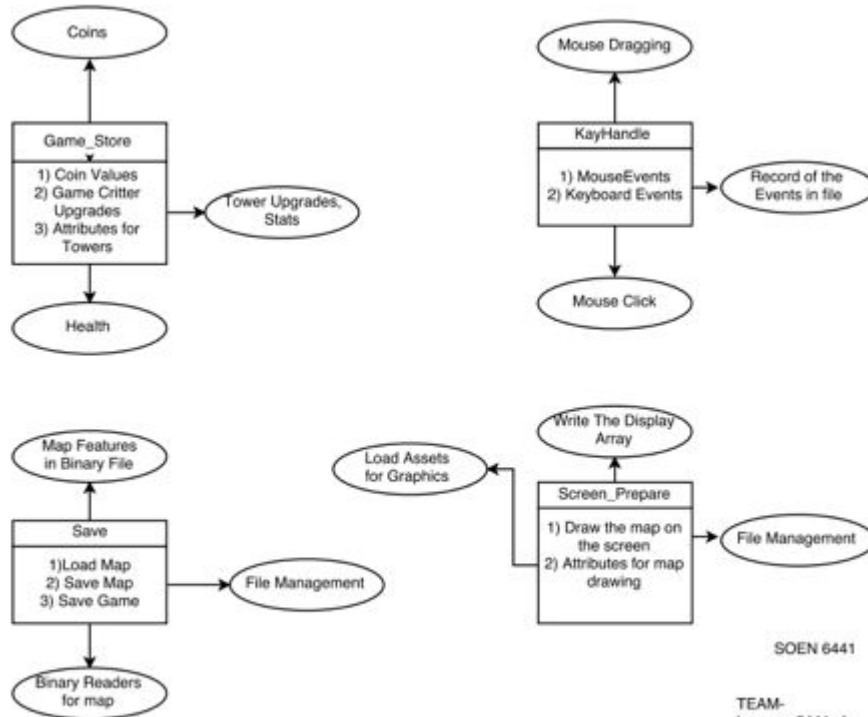
# New Features in this Build

1. Wave based play
2. Towers can target critter using different strategies based on the radius
3. Towers can kill critters, Player can win the game if he kills all the waves
4. Special effects for towers based on the price of the tower
  - a. Fire Power
  - b. Ice Power etc.

# Coding Standards

1. Indenting and Whitespace
2. Naming Conventions - Upper Camel and Lower Camel
  - a. 1. File names use lowercase characters only.
  - b. 2. Classes start with uppercase letter and use upper case letters to separate word.
  - c. 3. Methods start with lowercase letter and use upper case letters to separate words.
3. Comments with Java Doc

# In a nutshell



SOEN 6441

TEAM-  
bo\_soen6441\_4

# Learnings from Build 2

**Practicing MVC really helped to segregate different modules in the project and deploy new custom actions.**

We were struggling to deploy new features by changing half of the code every time. With MVC creating new features for tower and creatures got divided easily with the help of MVC.