Context Project Group 8





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Draft Design

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1 Introduction

This document has been written with the goal of providing insight in the architecture design of our software solution. The architecture design will be subjected to change frequently due to the need for additional features or problems encountered with the current design. This document will be updated accordingly when these changes are made.

1.1 Design goals

We have divided our classes mostly over two categories: model and view. All classes that represent the game world or objects of the game world are part of the model. All classes that construct a way to view a part of the game world are part of the view category. One of our design goals was to keep coupling between these two categories as loose as possible. This way we can easily make changes to the game world our implement a new view without having to adjust a lot of classes.

2 Software Architecture Views

2.1 Subsystem Decomposition

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The architecture of the system is divided into subsystems. These subsystems are the Game Model, the Driver Interface, the Navigator Interface and the Network Interface. All subsystems will be explained in this section.

The Game Model

The Game Model consists of the game world and all data related to the game. The actual game takes place in this subsystem. All other subsystems are interfaces that are used to alter the game model.

The Driver Interface

This is one of the two interfaces that will be directly used by the players to interact with the Game Model. The Driver Interface enables the user to see the car and its direct surroundings. It also gives the user the means to controll the car (steering and acceleration).

The Navigator Interface

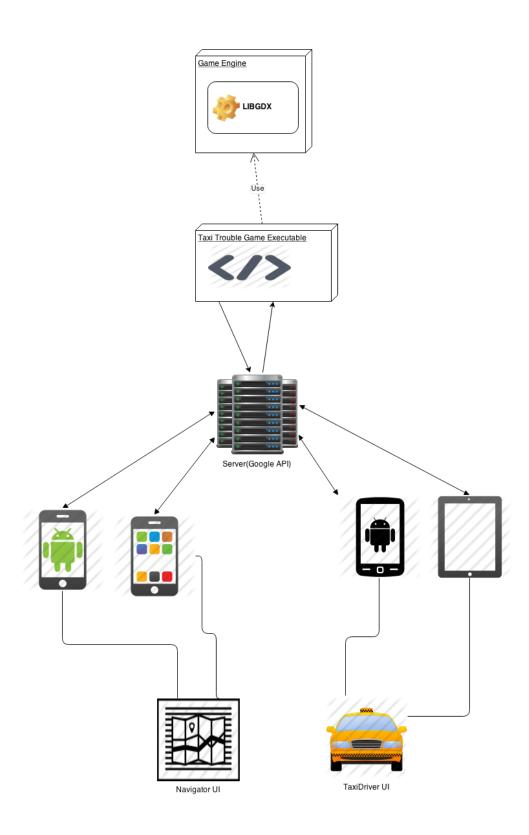
The second way for players to interact with the Game Model is the Navigator Interface. This interface gives the user an overview of the game world in the form of a map. This enables the user of this interface to (verbally) guide the user using the Driver Interface through the game world. The Navigator Interface can be used to interact with the Game Model through the activation of powerups, which will alter specific parts of the game world.

The Network Interface

This interface is used to connect players with eachother. It is responsible for the connection of the two players within each team as well as the connection between all the teams. The Network Interface is also responsible for the concurrency between all Game Models.

2.2 Hardware/Software Mapping

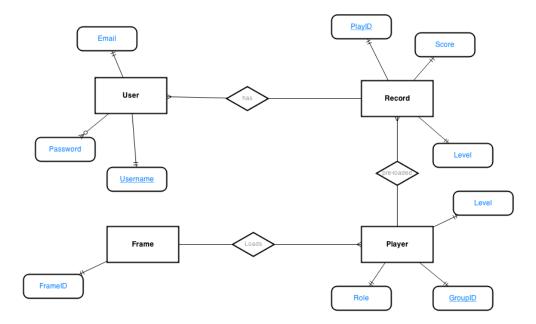
Taxi Trouble is a Real-Time Multi-player game where multiple users can join and interact with game instantaneously using their android devices. The game will start by main menu where User will choose his preferences. if User choses to have a role as 'Taxi Driver' then Driver view UI is displayed otherwise User get a latter option as role of 'Navigator' and related UI will be displayed to the user. Since current subsystem design is experiencing its initial phase, there might be more subsystem added or modified iteratively on the next sprints of the project.



2.3 Persistent Data Management

Here a visual model is shown where it describes the data or information aspects of a game domain and its process requirements, in an abstract way that lends itself to ultimately being implemented as a relational database.

Initial design for persistant data management is a basic design for storing user and score information data, This basic design represent very initial idea or relational model and is subject to a massive change. The following represents visual basic ER database model architecture of the game.



3 Glassory