Bilkent University

**Monopoly Project Group 2J**

*Bilopoly: Monopoly’s Bilkent version*

Final Report

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# Introduction:

Bilopoly is a virtual version of Monopoly with some interesting variations in the rules and design. Its design is inspired from Bilkent University and most of the attributes are named based on that. We implement the whole game. Features including rules, propertes and concepts from the original version of Monopoly which we have decided to use in Bilopoly are implemented successfully and they are observable in the game. Furthermore, new features stated in the README text also implemented and you are able to play Bilopoly with those features. Moreover, user interface which we indicate in the Analyze report is implemented and Bilopoly is played based on those UI.

# Lessons Learnt:

Since for writing analyze and design reports of Bilopoly Game we have to use different UML diagrams including, use-case, sequence, state, activity and class object diagrams, we as a group learn that how we should design these diagrams for a project and how we should connect these diagrams to each other in order to have a consistent system. Moreover, for solving issues related to software and communication between designers being more efficient we learn different design pattern including singleton and strategy design patterns. Furthermore, requirement engineering is another topic, which during designing and implementing this project, we understand how much it is crucial and try to learning it. For instance, in this project we should understand what instructor wants, what wishes might be asked through designing the project and what technical environment we need for this project. However, reverse engineering is one of the most important knowledge which have been learnt throughout this project. For having an object oriented program, we need to break down the project. Therefore, learning reverse engineering helps us to figure out how each part of the project should be designed and built.

# User’s Guide (Manual):

In the first page of the game you are provided with six different menu options as you can see in the below picture.

1. New Game allow you start the new game.
2. Load Game allow you to open the saved games
3. Setting allow you to make change in music and other option
4. How to play is a brief explanation about the changes in the original version of monopoly
5. Credit is a brief information about group members
6. Quit allow you exit the game.

## New Game

After pressing New Game you can chose name, token, color for each player. As a default there is only two player in this screen but you can add or delete player as much as you want up to 8 players.

## Load Game

After pressing load Game you are will see the below page which there are saved games. Each saved game has the name which is asked when you want to saved it and date of your last saved. Furthermore, in this game you can load the game or delete it as you can see in the below picture.

## Setting

In this menu you are able to make change in the volume of the sound track of the game. As default it is moderate but you are able to increase or decrease it.

## How to play

In this part we only mention to the changes which we considered for this version of monopoly and explained which are these changes. Changes are including design or rules one which both of them explained completely for players to understand what are these changes.

## Credits

In this option we give very brief information about who design and implement this version of Monopoly and what is the purpose. Furthermore, there is our Github project which will be public soon and people for more information can visit our Github.

## Quit

By pressing this option, you can exit the game. However, before getting you are face with a message as you can see in the below picture which by pressing Yes you will exit the game.

# Build Instruction:

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