

PROJECT REPORT ON ELECTION

GROUP MEMBERS:

- Megha Mahna (C0749456)
- Harpreet Kaur (C0761984)

SUBJECT: 2019F_MAD3463_2

INSTRUCTOR: Mr. Mohammad Kiani

❖ Introduction

The project is entirely based on election system which includes applicants, number of voters, ballot and the whole voting process. The aim of the project is to calculate the effective rate of participation, effective number of voters, winner of the election, voter distribution per applicant as well as to check the validity of votes based on certain constraints.

❖ Implementation of classes

In this program, we created three classes – Applicants, Ballot and Vote class as demanded in the project. Subclasses used are electronicVote, paperBallot, mail. electronicVote and paperBallot classes are inherited from vote class. Mail class is inherited from paperBallot class. Compute and checkBallot are the interfaces that are implemented in this project.

❖ Difficulties faced during implementation

The first part of test was easy to complete. However, there were some problems that we faced while compiling and running the second part of the test. Second part was actually very lengthy and the usage of so many classes and methods was a little bit complicated.

Moreover, there was a confusion between actual date and limit date of votes. In the nutshell, it was a time consuming project because the two portions- vote hierarchy and vote simulation took more time to comprehend. It was also quite difficult to handle the arraylist of objects as we are not that much familiar with the concept of arraylist and its methods. Checking the validity of votes also posed some problem as there were a lot of constraints that were needed to be checked.

❖ Overcome challenges

There is no doubt that the project was a little bit tricky and was difficult to understand and implement but somehow we managed to solve the problem and get the desired result of project. We took help from the educational sites available on internet as well as the content uploaded on moodle. And this project was not possible without the help and guidance of our instructor.