

**Assignment – 1 (Challenging Task)**

**24.09.2021**

**1. Modeling Business Problem**

**Daily Dish Selection app by MOM**

**SDLC approach**

- Problem Statement
  - Analysing the problem statement
- Requirement Specification
- Design
- Code.
- Testing

**Stake holders**

- Mom (Buyer) (End users / Admin)
- Family Members (End users)
- Application developers / company
- GUI <<Choice Form>> class
- Entity class <Member>

**Problem Description:**

- An application is required to the Lady (Mother) to provide a choice of food to the members (8-10).
- Based on the preferences of the members, the application will select a dish to prepare.
- The application will apply the best algorithm to choose the dish.
- In the application the mother is keeping a list of dishes, of which 3 or 4 are given daily as a choice in the meal.
- Mom can see each member's choice and final result.
- Members can see the final result i.e. the selected dish for today by the application.
- **Appropriately handle any missing information/requirements by making reasonable assumptions.**

**Example algorithm:** The dish that gets the most votes will be made. If all recipes get the same number of votes, any dish chosen at random by the algorithm will be prepared by Mother. Apply any such rule to the algorithm based on possible situations.

**Formulate a general programming solution (including class diagram) as per the above scenario and given description.**