**Project Proposal Document – The Game of Codes**

**Topic :** Housing Management System

**Project/Problem Overview :** To develop an application for managing various activities on university housing. Due to an increase in number of students, it has become very difficult for universities to maintain, handle the accommodation and food services. Also it has become very difficult to handle the management functionalities and services manually.

This project provides a solution and improvises the existing system of the housing department to provide faster and better services for students who choose these university accommodation services.

**Application Key Functionalities:**

This application mainly deals with activities such as accommodation of the multi-department students studying in the universities, health services for the students, management of other required services for the students.

* The application developed will help in avoiding the problems which occur when carried out manually.
* Students will no longer apply for accommodations manually
* The management can calculate the accommodation fee and customize the menu based on student health
* In case of any health emergencies, UHCS will be contacted immediately by the management system
* Improves the efficiency of the system by easily handling activities of administrations and other managerial roles
* This application will reduce the manual errors and avoid redundancy.
* Accurate information regarding the student's accommodation details, health details and other details will be stored in this application.

**Proposed entities :**

* In our model, a network will be defined as a university.
* Our enterprises are as defined below:
  + 1. Users/Students - Students in need of accommodation
    2. Management - Takes care of all the services pertaining to the students accommodation
    3. Health Services - Services provided by the university for students
    4. Food Services - Customized for students based on their health background

**Additional Features :**

* Accommodation to students is based on student's previous health statistics and customized food menu will be provided to students based on the same
* Regular checks will be scheduled for students based on their health reports
* Students will have to fill waiver forms to check if they are eligible for housing fee waivers
* Students who are economically challenged will be waived of food and health charges based on their performances and their previous educational background.