

Course: CSE499A (Senior Design Project I)

Section: 07

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Submitted to: Mohammad Ashrafuzzaman Khan

Submitted by:

Group Members:

1. **Name:** Sayma Mahmud
ID: 1912773042
2. **Name:** Arjuman Ara Baishakhi
ID: 1922116642

Project Idea

NSU Welfare

NSU Welfare is a web-based digital platform that allows anyone linked to NSU, such as students, faculties, and staff, to cooperate by ordering preferred meals, tracking personal calorie intake by detecting BMR (Basal Metabolic Rate), proposing food products based on gender and predicting future health condition based on their food habits using Machine Learning. Our main goal is to use this platform to serve NSUers by delivering meals on time, caring about their health, advising food, and forecasting their future health status.

NSU Welfare aims to-

- Provide a variety of nutritious and attractively presented meals, drinks and other items of cafeterias at a reasonable cost offered by the restaurants
- Provide knowledge of nutrition and calorie consumption regarding BMR
- Recommend food items based on gender criteria
- Predict future health condition based on food habits
- Provide approximate time to complete an order
- Provide pick-up or delivery option
- Avoid physical appearance and maintain social distance while ordering a meal
- Lower user's estimated waiting time
- Make it easier to update the menus
- Enhance user experience

NSU Welfare will be composed of the mentioned features below:

- Registration feature (providing validate information)
- Login feature (for people connected to NSU)
- Home Page (user profile, About us, Glimpse of the meals according to their category)
 - User Profile (consist of BMR value, calorie intake criteria, recommended meals)
 - Menu (consist of list of foods, prices and their nutritional values)
 - Cart (selected item's name & cost)
 - Address (e.g., Location: SAC1079/ NSU Gallery & Contact number:
017XXXXXXXXX)
- Contact us