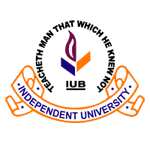
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**Independent University, Bangladesh**

**Department of Computer Science & Engineering**

**CSE 307: System Analysis and Design**

**(Summer 2019)**

**Assignment 1 (40 Points)**

**Statement of Work**

**Due on May 22, 2019**

**Instruction:**

* Save the file with the naming convention as

A1\_CSE307Summer2019\_ID\_FIRST NAME\_LAST NAME.docx

* Submit through Piazza.com under folder assignment1 to the Instructor as Question.
* In summary please follow the convention: A1, ID, First Name Last Name

**Tasks:**

1. Choose you project (2 Points)

A diet categorizing web-based application for a medical / hospital and/or food places.

1. Project goal and objectives (4 Points)

- Healthier lifestyle for everyone

- More conscious and aware diet and nutrition plan

- Time saved by ordering food + home delivery

- healthy source of food / ingredients

- Give people easy access to information / recipes to make own dishes

1. History leading to project request (4 Points)

-Health conscious people

- Modern generation

- Time conscious people

- Traffic, and incontinence going to doctor/finding healthy diet to eat/good places where they sell the ingredients or make those dishes

- Incontinence finding reliable medical/diet information online from vast information

- Lack of similar product in market

- Need for a solution

- Increased revenue for food place owners and groceries for more orders

1. Identify Problem, Solutions & Opportunities (10 Points)

> Problems

-Health conscious people

- Modern generation

- Time conscious people

- Traffic, and incontinence going to doctor/finding healthy diet to eat/good places where they sell the ingredients or make those dishes

- Incontinence finding reliable medical/diet information online from vast information

- Lack of similar product in market

- Need for a solution

- Increased revenue for food place owners and groceries for more orders

> Solutions

- Web/mobile based solution to find healthy dishes to eat, places to eat them, how to make them, home delivery, and more awareness on what you are eating

- Home delivery

- Information at fingertips

1. Product Description: (20 Points)
   1. Product Summary
   2. Product Stakeholders

- Users

- Restaurant / Food joint owners

- Superstores / Shops / Grocery stores

- Hospitals / Doctors

* 1. Context Level Data Flow Diagram

- Hospitals / Doctors -> Food meal plans, diet menus + Nutritional values + Ingredients/food items

- Grocery -> Supplies the ingredients

- Restaurant/Food joints -> Buys ingredients based on doctors’ plans + Prepares recipes/foods based on that

- User -> Gives personal information for personalized diet plan, gives allergies, location, age, food preferences, dish preferences, spice/sweet/savoury, home delivery, or recipe or parcel, or go and eat

Gets information based on inputs

Can order online using bKash, CCard, DCard, On Delivery

- Payment Companies -> Help with monetary transactions

* 1. Software key technical features

- Online web application

- Take information from user (location, age, gender, phone number 1 2. allergies, weight, preferred diet plan, preferred ingredients, preferred calorie intake, time of meal)

- Show recipes of dishes based on requirements, show diet plans based on requirements and dishes, show restaurants/food joints based on dishes and location,

* 1. Hardware Details (Include Rich Picture)