Air University Multan campus 

Department of Computer Science and Engineering



**Door Delights**

**Project proposal**

Prepared by

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1. INTRODUCTION

This is an online cafe system which allows customers to order cafe items and customize food according to their choice. Other than that you can also give feedback.This system is highly scalable as you can add, remove and update products accordingly.

**Context:**

The fast appreciation of technology, an insatiable need for access to the internet has spread out across all societies. This has seen mushrooming of internet cafes in different parts of the nation. The vast demand for internet services in the market has attracted us into creating an application that fulfills the gap between people at home and the cafe.

**Problem:**

We have found that the existing internet cafes are providing shoddy services and other than that homemade businesses require a lot of such systems which can create ease for them to run their business. Hence it is the responsibility of developers to develop such platforms for them.

**Response:**

Unlike a typical cafe, it will provide a unique forum for communication and selection through the medium of the Internet. Our goal is to provide the community with a social atmosphere. To complement this, the café will provide, user-friendly, eye catchy and affordable platform for online cafe services.

2. THE PROBLEM

In our modern times, we are prone to different businesses and huge companies established in local areas. We know the fact that managing any store, whether big or small space is occupied, is a very difficult task. In accordance with this matter, adapting to changes is the most common thing we can do to resolve this issue. Technology is widely used in making our lives in the simplest and easiest way. In terms of hi-tech gadgets, computers are top rated because we can find it in government agencies, nonprofit organizations, and households, but their impact has been greatest in business and industry. An online Café is one of those businesses that are rapidly spreading, so long as they are in demand.

Moreover, confronted by COVID-19 outcomes, cafes are experiencing declines in visits as well as shifts in consumer behaviors. In response to an increase in at-home beverage solutions, cafes are finding new ways to drive menu innovation by offering unique, hard-to-replicate beverages and food options.

**3. PROJECT GOALS AND OBJECTIVES**

The goal of the system is to make the process of placing an order as simple as possible for the customer, the functionality provided through the web ordering system is restricted to that which is most pertinent to accomplish the desired task. All of the functions outlined below, with the exceptions of account creation and management, will be used every time a customer places an order.

The system will fulfill the following objectives:

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* Navigate the restaurant’s menu.
* Select an item from the menu.
* Customize options for a selected item.
* Add an item to their current order.
* Review their current order.
* Remove an item/remove all items from their current order.
* Provide delivery and payment details.
* Place an order.
* Give feedback to the system.
* Receive confirmation in the form of an order number.
* Mange the admin’s accounts
* Allow admin to update, delete or add items in the menu.
* Display the orders in an easily readable, graphical way

**4. THE SOLUTION**

To Solve the above stated problem our system is divided into three main logical components.

* The first component must provide some form of menu management, allowing the restaurant to control what can be ordered by customers.
* The second component is the web ordering system and provides the functionality for customers to place their order and supply all necessary details.
* The third and final logical component is the order retrieval system. Used by the restaurant to keep track of all orders which have been placed, this component takes care of retrieving and displaying order information, as well as updating orders which have already been processed.

**5. PROJECT SCOPE**

The scope of this project is limited in such a way that you can’t track your order or access to other food courts. In this project users can access the items of one specific cafe, admins can remove, update or add items to the specific cafe only. The services of the cafe are limited to the local area only.

**6. HARDWARE AND SOFTWARE TOOLS**

**6.1. HARDWARE**

**Processor:** Core i7 4th Generation

**Ram:** 8 GB

**6.2. SOFTWARE**

**Language:** HTML, CSS, Bootstrap, Python

**Framework:** Django

**Database:** SQL

**7. COST (IF APPLICABLE)**

Project doesn’t contain any major cost because we are using our own hardware device and free software for the development of our website

**8. TIMELINE**

1: First of all we will register our website.

2: We will make frontend of a webpage by designing admin login and menu display

3: We will store the users and placed order information in the database at the backend by setting up database model.

4: We will create an API for Django Rest Framework.

5: We will use Bootstrap and CSS for styling web page

6: We will manage read, create, update and deletion

**9. ROLES AND RESPONSIBILITIES**

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibilities** | **Participants** |
| Project Leader | Overall Management of Web | Kainat Zahra |
| Analysis | Gathering and Comparing information about the web | Kainat, Momina |
| Design | Front End Development--------  Back End Development-------- | Furqan, Anas  Kainat, Momina |
| Implementation | HTML, CSS, Bootstrap---------  Django, SQL---------------------- | Furqan, Anas  Kainat, Momina |
| Testing | Checks for functionality, usability, bugs, compatibility, performance of the web application | Furqan, Anas |
| Domain Experts | Overall Check and Balance of the Web | Furqan, Anas  Kainat, Momina |

**10. RISK MANAGEMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Type** | **Probability** | **Strategy** |
| Database failure | crash | 20% | Inspection of database |
| System/Machine Failure | File corruption/ system hack | 20% | Files recovery through internet |
| Server Down | Internet issue | 30% | High availability of Internet |

**REFERENCES**

<https://www.w3schools.com/>

<https://docs.python.org/3/tutorial/>

<https://developer.mozilla.org/en-US/docs/Learn/Server-side/Django>