**Capstone Project**

Iteration #1 Report

**TEAM 5**

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# Introduction

The Problem:

* Students often struggle with managing tight budgets while balancing academic and personal needs.
* Many local restaurants offer discounts, but students may not be aware of them or find it inconvenient to search across multiple sources.
* This lack of accessibility results in missed opportunities for both students and businesses.
* Our app aims to centralize these discounts, improving convenience, saving money, and promoting partnerships between students and local food vendors.
* The project revolves around the development of an application designed to help students find discounted meals and special deals at local restaurants, cafes, and food vendors.
* This platform will aggregate discounts into a single, user-friendly interface, enabling students to save money while enjoying affordable dining options.

# Vision and Scope

* To become the go-to platform for students seeking affordable meals by bridging the gap between student demand and local business offerings.

## Scope

* Provide students with real-time access to discounted meals and offers.
* Allow restaurants and cafes to advertise special student deals.
* Enable users to filter results by price, location, cuisine, or popularity.
* Future enhancements may include loyalty points, reviews, AI-based personalized suggestions, features such as map integration, and QR code redemption.

# Business Value

* **For Students:** Reduced meal costs, increased savings, and easier access to deals.
* **For Businesses:** Increased visibility, higher student engagement, and potential sales growth.
* **For Institutions:** Support student well-being by helping them access budget friendly meals.

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| --- | --- | --- |
| **Categories** | **Reason** | **Cost** |
| Development payroll for 4 weeks | $25/hour a person at 40hrs/week = $4000 | $4000 |
| Hardware and Software Reqs. | Intial registration of $25 to publish on playstore and $99 yearly for applestore | $25 + $99/yearly |
| Total Cost |  | $4025 +99/yearly |

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# Feasibility Studies

Description:

•This meal discount program is large need of college student trying to save money while in college and save money until they have landed their big break.

•Users will connect to a hub where they can find discounts on food that would normally be wasted.

•Prices and menus will be display to users and location of restaurants and stores will be displayed on a map.

Technology Considerations:

•Database the need to be updated with inventory and prices by restaurants and stores

•Mapping location displayed in app or navigation to google maps or alike

Market Place and Marketing Strategy:

•Student lounge, hallways of the campus, school bulletin boards / websites

Organization/Staffing:

•There are 4 members of our team, and we should have the rough version of the program in about a month

# Software Development Methodology

We will use the Agile methodology, particularly Scrum, due to its iterative approach, flexibility, and continuous feedback cycles. This ensures features can be delivered incrementally and refined based on user input.

# Proposed System Functionalities

There should be two interfaces

•Customer interface

•Mobile/Web based app to find the deals based on filter options:  
 Type of cuisine, price range, and location.

•Map of restaurant

•Order placement (remove from database)

•Restaurant Interface

•Mobile / Web based app lets users:

•Enter or Remove the deals in the database

•Modify entries in the database

Non-Functional Requirements:

•Accessibility – Application on IOS and Android platform s

•Performance – Smooth and responsive UI

# Diagrams of our system

## Use Case

A screenshot of a computer screen

AI-generated content may be incorrect.

# Hardware and Software Requirements

## Hardware Requirements:

* Development is on laptop

## Software Requirements

* Programming languages; Java, Python, & PHP
* Front-end: HTML & CSS, Bootstrap, JavaScript, React, JavaFX
* Backend Frameworks: Java
* Database & Other Tools: My SQL, IntelliJ, VS Code, GitHub, Google Maps API

**Software Requirements**

* + Programming languages; Java, Python, & PHP
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# Project log (when you met, who attended, etc.)

## 09/04/2025

* Get to know each other and introduce project goals.
* Gathered requirements from stakeholders.
* Defined the scope & vision of the project.

## 09/11/2025

* Reviewed architecture and data flows.
* Confirmed feasibility.
* Agreed on scope and initial layout.

## 09/18/2025

* Requirements review completed.
* Database design approved.
* Initial use case diagram presented.

## 09/25/2025

* First stakeholder presentation to ensure agreement on project scope.
* Confirmed the project is technically and financially feasible.

# Project plan

What might be in each iteration, subject to change, who will be in charge of what piece.

