

#### The Hashemite University Prince Al-Hussein Bin Abdullah II Faculty for Information Technology

#### Department of Computer Information Systems

HU Break

*A project submitted*

*In partial fulfillment of the requirements for the degree of Bachelor in Computer Information Systems*

#### By

Basil Jamal ABDALLAH (2034527)

Shahd Yousef HARRASH (2036748)

‘ Mohammad Nour’ Ibrahim ALRAWASHDEH (1934765)   
 Mallak Fikri SHROUROU (2036355)

#### Supervised by

D. Subhieh Moh`d ELSALHI

#### Committee Member Names

Committee Member’s First Name Middle Initial Last Name Committee Member’s First Name Middle Initial Last May/2023

**UNDERTAKING**

This is to declare that the project entitled “HU Break” is an original work done by undersigned, in partial fulfillment of the requirements for the degree “Bachelor in Computer Information Systems” at the department of Computer Information Systems Department, College of Prince Al-Hussein bin Abdullah II of Information Technology, the Department of Computer Information Systems (CIS) at the Hashemite University.

All the analysis, design and system development have been accomplished by the undersigned. Moreover, this project has not been submitted to any other college or university.

Student 1: Basil Jamal ABDALLAH (2034527)

Student 2: Shahd Yousef HARRASH (2036748)

Student 3: ‘Mohammad Nour’ Ibrahim ALRAWASHDEH (1934765)

Student 4: Mallak Fikri SHROUROU (2036355)

Note: sign across your name

CERTIFICATE

It is hereby certified that the project titled <***HU Break***>, submitted by ***Basil Jamal ABDALLAH***(2034527), ***Shahd Yousef HARRASH*** (2036748), ***‘Mohammad Nour’ Ibrahim ALRAWASHDEH*** (1934765) … and ***Mallak Fikri SHROUROU*** (2036355) in partial fulfillment of the award of the Degree of Bachelor in Computer Information Systems embodies original work done by them under my supervision.

Project Supervisor: D.Subhieh Moh`d ELSALHI

Department of Computer Information Systems

**ABSTRACT**

A restaurant’s website is essential for any restaurant looking to attract and retain customers in the digital age. For a long time, students in the Hashemite University had too many problems while trying to eat in their break time, either because of the long distances between the university buildings and the restaurant, or the short period of time they have considering the very long order-waiting time. This problem creates a bigger problem in that sometimes students even have to miss their lectures just so they can get some food to eat, so we as a team came up with the idea of using our resources that have been taught to us by our great university and teachers and professors to make a website that gathers all the restaurants in the Hashemite University in one place with a lot of useful characteristics such as showing every restaurants current capacity , showing the rating of every restaurant , and including the online ordering system so the student can save time and not wait for his/her order to be ready.

**Table of Contents**

[CHAPTER 1: Introduction (Heading 1) 6](#_bookmark5)

* 1. [Overview 6](#_bookmark6)
  2. [Project Motivation 6](#_bookmark7)
  3. [Problem Statement 6](#_bookmark8)
  4. [Project Aim and Objectives 6](#_bookmark9)
  5. [Project functionality 7](#_bookmark10)
  6. Project [Results 7](#_bookmark11)

[CHAPTER 2: Related Existing System (Optional) 8](#_bookmark16)

* 1. [Introduction 8](#_bookmark17)
  2. [Existing Systems 8](#_bookmark18)
  3. [Overall Problems of Existing Systems 11](#_bookmark19)
  4. [Overall Solution Approach 11](#_bookmark20)

[CHAPTER 3: ANALYSIS AND DESIGN 12](#_bookmark21)

[CHAPTER 4: IMPLEMENTATION 14](#_bookmark40)

[CHAPTER 5: CONCLUSION AND FUTURE WORK 18](#_bookmark48)

[REFERENCES 19](#_bookmark49)

**CHAPTER 1**

**Introduction**

## Overview

HU Break website is a website designed for the students and staff in the Hashemite University so they can save time ordering food.

The website will allow the users to browse and place an order fairly quickly and easily with just a few clicks. This expands the restaurant’s reach and makes them more money, but most importantly, it will save valuable time for the students and the staff in the Hashemite University giving them more time to enjoy their break time with less effort.

The website that we are proposing here, generally simplifies the ordering process for both the students and staff of the Hashemite university, the website presents an interactive and up-to-date menu that includes all the available options in a user friendly environment, customers can chose one or more items to place an order which will land in the cart, customers can view the details of the order in the cart before checking out. Then, an estimated time page will show up giving the customer an estimated time about when the order will be ready.

## Project Motivation

Our motivation for this project comes from our desire to help fellow students and staff with their day-to-day life in the university, students waste too much time trying to do a very simple thing which is just getting something to eat between lectures in their break time. Moreover we feel like this is our way in thanking the university that made us who we are today, and helping the next generation of our fellow students.

## Problem Statement

## Because of the big and vast size of the Hashemite University, and the very crowded restaurants, students take too much time to get something to eat. Causing them to miss out on lectures and lose the valuable information given in that lectures.

## Project objectives

## The project aims to help the staff and students of the Hashemite University and save their precious and valuable time giving them a better experience for their break time.

## 

## Project functionality

The overall purpose of this project is to develop a food ordering system that will make it easier and more convenient for customers to order food at HU restaurants. The goal of this project is to create a system that is user-friendly, and reliable.

The project will achieve this goal by developing a system that has the following features:

1. A user-friendly interface that allows customers to easily browse the menus of their favorite restaurants and place orders.
2. A reliable system that ensures that orders are placed and processed accurately and on time.

The project will be developed using a variety of technologies, including web development and database management.

The project will be beneficial to both students and restaurants. Students will benefit from the convenience of being able to order food from the restaurants online to shorten waiting time. Restaurants will benefit from the increased sales that come from having an online ordering system.

Here are some specific benefits of the food ordering system:

* Convenience: students can order food from their favorite restaurants during their lectures.
* Speed: students can take their food faster than if they had to wait in line to order at the restaurant.
* Variety: students can choose from all restaurants in the university and menu items.
* Affordability: students can often find discounts for online orders.
* Efficiency: Restaurants can save time by processing orders online.
* Accuracy: Restaurants can reduce the risk of errors by processing orders online.

## Project Results

The system has made it easier and more convenient for students to order food from their favorite restaurants easily and in a short time. They can also choose from a wider variety of restaurants and menu items. The system has also made it easier for restaurants to process orders. They can now save time and money by processing orders online.

The system has been a valuable tool for both customers and restaurants. It has helped both parties save time, money, and hassle.

**CHAPTER 2**

**Related Existing System**

## 

## Introduction

## In this section, we are going to present a website that is related to the field of our application and discus it briefly.

## Existing Systems

## This case study examine the problems of some websites such as Talabat and KFC. We will give an introduction of each website and we will talk about each for their problems in relation to the students of the Hashemite University.

## Talabat

## Figure 2.2.1 presents the main page of Talabat website. [11] Talabat is an online food ordering company founded in Kuwait in 2004. As of May 2023, Talabat operates in Kuwait, Saudi Arabia, Bahrain, United Arab Emirates, Oman, Qatar, Jordan, Egypt, and Iraq. A subsidiary of Delivery Hero since 2016, Talabat became the largest food ordering company in the Middle East.

## 

## 2.2.1 Talabat website

## Overall problems of Talabat

## Although Talabat food ordering system works great in the populated cities and around them, we can’t say it’s the same case in the rural areas of Jordan. Because it only gives the customer the chance of ordering food from the restaurants that are about in 10 kilometers radius of his location. Such areas that surrounds the Hashemite University don’t have that many services or restaurants that are working with Talabat, leaving the website pretty much useless to those who live in those areas.

## Here are the only two restaurants the work with Talabat and can offer delivery to the Hashemite University:

## 1-Qayser Pizza: it’s a pizza restaurant in east of Zarqa, located about 10 kilometers away from the Hashemite University, according to Google Maps the restaurant has a rating of 4.2 stars, and according to Talabat, the average estimated time for an order with the delivery is about 70 minutes. And the delivery and taxes will cost around 5JDs.

## 2-popeyes: it’s a fried chicken restaurants chain that have many locations in Jordan. This particular branch is located in Zarqa around 11 kilometers away from the Hashemite University, according to Google maps it has a rating of 3.8 stars, and according to Talabat, the average estimated time for an order with the delivery is around 50 minutes. And the delivery and taxes will cost about 6JDs.

## KFC

## Figure 2.2.2 represents Kentucky fried chicken’s (KFC’s) food ordering system. [11] KFC is an American fast food restaurant chain headquartered in Kentucky that specializes in fried chicken. It is the world’s second-largest restaurant chain (as measured by sales) after McDonald’s. The chain is a subsidiary of YUM BRANDS, a restaurant company that also owns the Pizza Hut and Taco Bell chains. KFC was founded by Colonel Harland Sanders in 1952. KFC popularized chicken in the fast food industry diversifying the market by challenging the established dominance of the burger industry. The chain has 22,621 locations in 150 countries around the world as of December 2019.

## 

## 2.2.2 KFC website

## Overall problems with KFC

## Although KFC is world renowned chain loved by a lot of people, in Jordan over the last couple of years, the chain couldn’t keep the same quality as the time passed. Customers have reported through social media that the food doesn’t hit the same as it used to be, moreover, the quality consistency around the different locations that you would expect to be very high from a chain that big isn’t actually great.

## Also due to the current financial situations that Jordan and other countries around the globe are going through, KFC doesn’t offer competitive prices in comparison with other local fried chicken restaurants, some say that the whole chain is overhyped and overpriced.

## Know in the delivery department, KFC does deliver to the Hashemite University, but the delivery takes around 50 minutes and you will have to pay 8JD in delivery fees.

## Overall Problems of Existing Systems

## In conclusion, the problems of the Existing Systems are:

## Complex design and ordering process.

## Very high prices.

## Fairly long delivery time.

## The bad quality of the food.

## Possibility of time interference between lectures and delivery time.

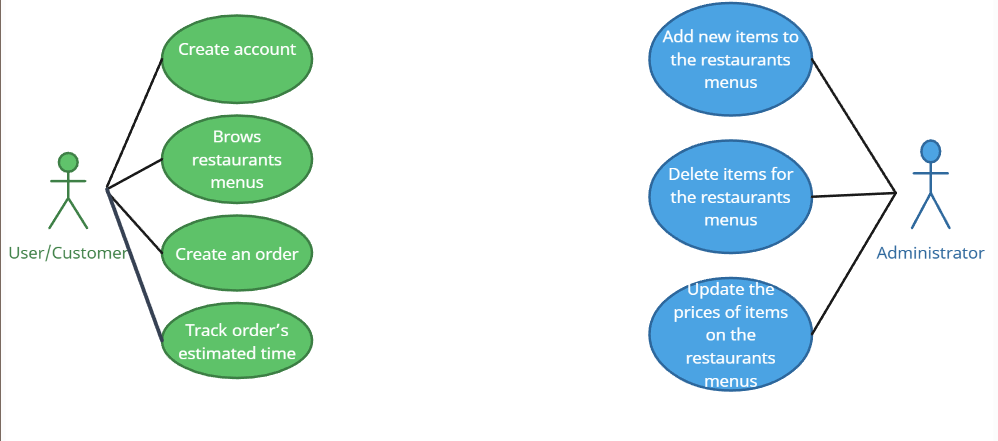
## Restaurants open time is at 11:00 am.

## Overall Solution Approach

HU Break website provides all the benefits of the Existing Systems minus the delivery time and fees, plus due to our website being based around the Hashemite University’s restaurants; all students can order from any restaurant during the working hours of the University. Add on that the rating system that should provide the customer with critical info on which restaurants to avoid and which to order from, and overall in less complex and more user friendly environment.

# CHAPTER 3

# ANALYSIS AND DESIGN

****

**HU Break website’s Use case diagram**

**A more detailed description of each use case:**

**User/Customer:**

* Create account: the users can sign in, sign up and change passwords to their accounts.
* Brows restaurants menus: The users are able to brows any item from any menu for any of the restaurants to see what is available.
* Create an order: The user can place an order for food after he selected his items from the restaurant menu.
* Track order time: The users can track the status of their order to see when it will be ready and for them to pick it up. This process is done by displaying a timer that shows the estimated time for their order to be ready.

**Administrator:**

* Add new items to restaurants menus: The admin is the one responsible for adding new items to a restaurant’s menu or even adding a whole new restaurant as requested from the restaurant’s management.
* Delete items from the restaurants menus: the admin is the one responsible for deleting items from menus or even deleting a whole restaurant as requested from the restaurant’s management.
* Update the prices of items on the restaurants menus: the admin is the one responsible for changing the prices of items on the restaurant’s menu as requested from the restaurant’s management.

#### Non - Functional Requirements

#### In this section we are going to cover the non-functional requirements of HU Break website:

#### 1-Useability: The website should provide an interactive user-friendly interface that is easily understandable for all users.

#### 2-Avaliablility: The website should be available during the working hours of the Hashemite University.

#### 3-Security: Only authorized users must be able to access the system to modify data.

#### 

# CHAPTER 4

# Implementation

# 

# In this chapter we will provide the details the User interface for the website.

# User interface and Design

# 1-Log-in page: If the user already has an account, he will log in immediately by entering his Email and Password.

# 

# Figure 4.1 log-in page

# 2-Registeration page: This page will enable new users to create a new account, user must provide his name, E-mail, and set a password.

# 

# Figure 4.2 Sign-up page

# 3-Home Page: The home page displays all the restaurants inside the Hashemite University where customer could click on any of their logos to brows their menus.

# 

# Figure 4.3 Home Page

# 4-Menu page: This page enables the user to browse all items that a certain restaurant has and select the items of his order so they can be sent to the shopping car.

# 

# Figure 4.4 Menu Page

# CHAPTER 5

# CONCLUSION AND FUTURE WORK

**5.1 The summary and conclusion of accomplished project**

In conclusion, HU Break website aims to serve the community of the Hashemite University as a whole by reducing the time and effort of customers when ordering food.

**5.2 Future work**

In this section we will talk about our future work that we will do in the part two of this project.

**The functions to be added to the HU Break website are as follows:**

1-Make point of sale system (POS) for the restaurants that enables them to change the prices, make offers, and accept dine-in orders from the same page.

2-display the recommended items based on the rating of each item in the restaurant.

3-Include the ability for the user to write a comment in regards to his review of a certain restaurant.

4-Send a notification or an email to the customer when offers are available.

5-Give the customers the ability to customize their meal in detail.

6-Add a search box to make it easier to find the meal that the customer wants.

7-Add a user interface that enables the administrator to add or delete meals from the menu in an easy manner.

8-Implement a cleaner code.

**REFERENCES**

1. Talabat https://en.wikipedia.org/wiki/Talabat
2. KFC https://en.wikipedia.org/wiki