

**Arab International University**

**Faculty of Informatics and Communication Engineering**

**Junior Project Report on**

**Freelancing and Employing Platform**

Submitted to

Department of Informatics Engineering

in partial fulfillment of the requirement for theDegree of Bachelor in

**Informatics Engineering**

Submitted by

**Tayma Abd Rabou Hala Merie  
Ghina Alqaseer Sarah Akkasha**

Under the Supervision of

**Dr. Talal Shehabi Eng. Esraa Qasemy  
  
july 2024**

**© AIU Arab International University**

**All Rights Reserved**

**Month\_name Year**

Faculty of Informatics & Communication Engineering

CERTIFICATE OF APPROVAL

The undersigned certify that they have read and recommended to the Department of Informatics Engineering for acceptance, a project report entitled Freelancing and employing platform Submitted by: Tayma Abd Rubou, Hala Merie, Ghina Algaseer, Sarah Akkasha in partial fulfilment for the degree of Bachelor of Engineering in Informatics.

**Supervisor Head of Department**

**Dr. Talal Shehabi Dr. Rami Yard**

**Arab International University**

 The Arab International University (AIU) is a private Syrian university established in 2005. Its academic plans and the documents issued by it are approved and certified by the Ministry of Higher Education in the Syrian Arab Republic.

**The university works to achieve the following goals:**

* Preparing a distinguished generation of university graduates who are able to meet and advance the specific needs of society.
* Contributing to theoretical and applied scientific research that serves the purposes of national development. Work is being done to urge professors and academic staff to scientific research and participate in conferences and seminars that organize research.
* Achieving partnership with prestigious Arab and foreign universities with the aim of continuous development and modernization of academic work and conducting joint scientific research.
* Attracting distinguished academic and research competencies by providing the appropriate environment for their work.

**The Arab International University** is one of the first Syrian universities that have been established and inaugurated. It has been able to attract distinguished educational, research and administrative competencies, to create an integrated edifice from the academic, organizational and administrative aspects. It was able to graduate cadres of distinguished innovators by providing an educational environment based on unique qualitative and material ingredients, including:

* Modern and advanced study plans based on the credit hour system.
* Carefully selected educational cadres.
* Modern scientific laboratories and a laboratory for electronic libraries.
* Physical and moral incentives for students.
* Application of interactive teaching methods.
* Academic and educational guidance and counseling.
* A wide range of scientific cooperation agreements with local, regional and international universities of reputable reputation.
* Multiple agreements and memoranda of understanding with many civil society organizations.
* A proper campus with all the facilities of science, sports and entertainment, which we encourage you to visit and learn about their features.
* Student activities and clubs of all kinds: athletic, cultural, scientific and social.

**The Arab International University** life years are a time to invest in a student's future. The knowledge and experience that students acquire in the lecture hall and laboratories will help them in developing themselves. They will provide them with reasons for success in the chosen specialty. The student activities will help in expanding students’ horizon. The activities of training, clubs and sports will enable students to develop their talents, and may even help in discovering new talents.

Students could invest time, mind and spirit in our university in order to reap the benefits of works and the time devoted in the coming years. We will be by our students in every step of their way.

*To my father …..*

*My mother ….*

*My brothers …*

*…………………*

*Student1 name*

*To my father …..*

*My mother ….*

*My brothers …*

*…………………*

*Student2 name*

**………………………..**

**…………………………..**

**Acknowledgements**

It gives us immense pleasure to express our deepest sense of gratitude and sincere thanks to our highly respected and esteemed guide Dr. **Talal Shehabi** for his valuable guidance, encouragement and help for completing this work, his useful suggestions for this whole work and cooperative behavior are sincerely acknowledged.

We are also grateful to Eng. **Esraa Qasemy** for her constant support and guidance.

At the end we would like to express our sincere thanks to all our families, friends and others who helped us directly or indirectly during this project work.

**Abstract**

This is an effort for designing a report template for Junior projects in the Faculty of Informatics & Communication Engineering in the Arab International University AIU. Some pages are left blank intentionally, in order to start the chapters and main sections on odd pages, because the final printing will be on both sides.

The abstract is the heart of the report. It should be one-page synopsis of the project report and it must clearly give an overview of the project.

The table of contents should list only the materials following it.

Chapter titles, sections and subsections are specific to each project, for example, programming project may contain analysis, design, development, and testing chapters. Students can add their own topics or sub-topics as per necessity. **The titles provided in this template are just examples**.

Justify the report for clean look at both left and right side of pages.

The level of English must be appropriate to the level of the Bachelor’s degree. Normally, there should be no first-person references (e.g., I, we, us) in the report. If self-reference is required, reference may be made using “the author” or “this study”.

Appendices are provided to give supplementary information, which is if included in the main text may cause a distraction and cloud the central theme. Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix 2.

The reference material should include the author name, title, year in details

The final Arabic pages must be in even pages to make the report title pages start from the other end.

**Contents**

[Introduction 2](#_Toc57920901)

[Chapter 1: Project Description 4](#_Toc57920902)

[1.1 Background 4](#_Toc57920903)

[1.2 Problem Statement 4](#_Toc57920904)

[1.3 Project Objective 4](#_Toc57920905)

[1.4 Project Scope 4](#_Toc57920906)

[1.5 Project Features 4](#_Toc57920907)

[1.6 Project Feasibility 5](#_Toc57920908)

[1.7 System Requirements 5](#_Toc57920909)

[……………… 5](#_Toc57920910)

[……………… 5](#_Toc57920911)

[Chapter 2: Theoretical Study 7](#_Toc57920912)

[2.1 E-Commerce 7](#_Toc57920913)

[2.2 Online Shopping 7](#_Toc57920914)

[…………. 7](#_Toc57920915)

[……………… 7](#_Toc57920916)

[Chapter 3: Literature Review 9](#_Toc57920917)

[3.1 Related Works 9](#_Toc57920918)

[3.2 Previous Studies 9](#_Toc57920919)

[3.3 Survey 9](#_Toc57920920)

[3.4 Comparison 9](#_Toc57920921)

[…………. 9](#_Toc57920922)

[……………… 9](#_Toc57920923)

[Chapter 4: System Analysis 11](#_Toc57920924)

[4.1 Functional Requirements 11](#_Toc57920925)

[4.2 Non-Functional Requirements: 12](#_Toc57920926)

[4.3 Use cases 12](#_Toc57920927)

[…………………. 12](#_Toc57920928)

[……………… 12](#_Toc57920929)

[……………… 12](#_Toc57920930)

[Chapter 5: System Design 13](#_Toc57920931)

[5.1 Algorithms 13](#_Toc57920932)

[5.1 Solutions 13](#_Toc57920933)

[…………. 13](#_Toc57920934)

[……………… 13](#_Toc57920935)

[…………. 14](#_Toc57920936)

[…………. 14](#_Toc57920937)

[Conclusion and Future Works 15](#_Toc57920938)

[Appendix 1: Method Specification 16](#_Toc57920939)

[……………………. 16](#_Toc57920940)

[References 17](#_Toc57920941)

**Abbreviations**

AIU Arab International University

RT Report Template

……………………………………………….

……………………………………………….

**Keywords**

E-commerce, White Label, Multi-Vendor, …

# Introduction

Project report in this manual refers to a documented report of the process followed and the results of Junior and Senior projects, conducted by students, in fulfillment of the requirements in bachelor degree.

It is common practice to use decimal numbering in the project. If the chapter number is 2, the section numbers will be 2.1, 2.2, etc. The subsections in section 2.2 will be numbered as 2.2.1, 2.2.2 etc. Unless essential, it is not necessary to use numbers to lower levels than three stages. Similarly, it is useful and convenient to number the figures, the tables and the equations chapter-wise. The figures and the tables in chapter 4 will be numbered as Figure 4.1: Figure Name, Table 4.1: Table Name. All figures and tables should have proper captions. Usually the figure captions are written below the figure and table captions on top of the table. Figures should have proper description by legends, title of the axes and any other information to make it self-explanatory.

This document is organized as follow: the 1st chapter will introduce the project and describe project details, ….

# Chapter 1: Project Description

## 1.1 Background

The project objective is to deliver the e-commerce system into cross-platform. Online shopping is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. This project is an attempt to provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet by using any computer device. Thus, the customer will get the service of online shopping and home delivery from his favorite shop.

Project report in this manual refers to a documented report of the process followed and the results of Junior and Senior projects, conducted by students, in fulfillment of the requirements in bachelor degree

The Project Report should contain the items as outlined below and is to be presented in the order as listed. Details and specimens are shown in the appendices.

## 1.2 Problem Statement

Traders want to promote products in their stores and needs to provide an online access for customers to these products. Also, customers need more online stores specially in unusual circumstances like the covid-19 quarantine.

## 1.3 Project Objective

The objective of the project is to build a web application that allow traders to move their shops online and start a new E-Commerce business by creating online stores and managing customers, products, services, prices, qualities, and orders in these stores.

## 1.4 Project Scope

This system can be implemented to any commerce in the locality or to multinational branded shops having retail outlet chains. Any trader wants to start a new business can register in our web site and create a new store. Our System give commerce people the ability to create their own stores in our e-commerce platform. It allows busy people to make their business online.

## 1.5 Project Features

Provide traders with huge amount of choices and reporting facilities.

Show the latest updates of the stores.

Provide different payment methods: credit card, payment on delivery, …

The trader can choose how to subscribe in our e-commerce platform, monthly, yearly, or by paying commission on each product purchase.

## 1.6 Project Feasibility

This system can be implemented to any commerce in the locality or to multinational branded shops having retail outlet chains. Any trader want to start a new business can register in our web site and create a new store. Our System give commerce people the ability to create their own stores in our e-commerce platform. It allows busy people to make their business online.

## 1.7 System Requirements

The objective of the project is to make a web application that allow traders to create and manage their own new store, and allow customers to purchase items from these stores. In order to build such an application complete web support, need to be provided.

This system can be implemented to any commerce in the locality or to multinational branded shops having retail outlet chains. Any trader want to start a new business can register in our web.

## ………………

## ………………

# Chapter 2: Theoretical Study

## 2.1 E-Commerce

E-Commerce is the process whereby consumers directly buy goods or services from a seller in real-time over the Internet.

## 2.2 Online Shopping

Online shopping is ……………...

### 2.2.1 B2C E-Commerce

## ………….

## ………………

# Chapter 3: Literature Review

Choose the convenable titles, introduce the domain, give in details the similar works, ….

## 3.1 Related Works

The system provides a facility to accept the requests from traders after they register. The admin will see the requests from the trader and check if it's a real information like the credit card or passport id, after that the admin will approve or reject the uncompleted requests, the trader can create stores after admin approval and add their categories and products.

…………………………...

……………………………………………….

## 3.2 Comparison

Advantages and disadvantages of the different solutions.

## ………….

## ………………

# Chapter 4: System Analysis

## 4.1 Requirements Specification

## ……………

………………………….

## 4.2 Functional Requirements

The Admin should be able to do the following:

1. Manage accounts
2. View Requests
3. Approve or Reject trader requests
4. ……………………
5. View Stores
6. Manage Stores
7. View Store dashboard
8. Send Reports to the traders
9. Block users

The Trader should be able to do the following:

1. Choose Subscription type
2. Create a Store
3. Choose Store Theme
4. Manage his own stores
5. Add Products
6. Add discounts
7. View items
8. View customers
9. View products dashboard

We should add the customer functional requirements

## 4.3 Non-Functional Requirements:

1. Security
2. Performance
3. Transparency
4. Availability

## 4.4 Use cases

Use case is a list of actions or event steps typically defining the interactions between a role and a system to achieve a goal. The actor can be a human or other external system. In systems engineering, use cases are used at a higher level than within software engineering, often representing missions or stakeholder goals. The detailed requirements may then be captured in the Systems Modeling Language or as contractual statements.

After specifying the functional requirements of the application, we will represent the use case diagram that connects those functionalities together in order to show how the flow of information within the application is done.

## 4.5 Context Diagram

## ………………….

## ………………

# Chapter 5: System Design

## 5.1 System Components Diagram

## ………………

## 5.2 Entity Relationship Diagram

## ………………

## 5.3 Data Flow Diagram

## ………………

## 5.4 Web Pages Design

## ………………

## 5.5 Algorithms

The system provides a facility to accept the requests from traders after they register. The admin will see the requests from the trader and check if it's a real information like the credit card or passport id, after that the admin will approve or reject the uncompleted requests, the trader can create stores after admin approval and add their categories and products.

## 5.6 Solutions

The system provides a facility to accept the requests from traders after they register. The admin will see the requests from the trader and check if it's a real information like the credit card or passport id, after that the admin will approve or reject the uncompleted requests, the trader can create stores after admin approval and add their categories and products.

# Chapter 6: Testing & Discussion

## 6.1 Data Sets

## ………………

## ………………

## 6.2 Testing

## ………………

## ………………

## 6.3 Results

## ………….

## ………………

## ………….

## ………………

……………………………………..

……………………………………………………………..

# Chapter 7: ……………….

# ………….

# ………….

# Conclusion and Future Works

The project objective was to deliver the e-commerce system into cross-platform. In this project ….

# Appendix 1: Method Specification

Appendices are provided to give supplementary information, which is if included in the main text may cause a distraction and cloud the central theme. Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix 2

# …………………….

# References

**Books**

[1] S. Haykin, “Communication Systems”, John Wiley & Sons, Inc., 2001.

[2] T. S. Rappaport, “Wireless Communications: Principles and Practice” Second Edition, Prentice Hall, 2003.

[3] اسم المؤلف، اسم الكتاب، دار النشر، تاريخ النشر.

**Journals**

[4] Jonathan Rose, Abbas El Camal and Alberto Sangiovanni-Vincentelli (1990), Architecture of Field-Programmable Gate Arrays, IEEE Journal of Solid-State Circuits, Vol.25, No.5, 10

[5] الكاتب، عنوان المقالة، المجلة، تاريخ النشر.

**Conference Papers**

[6] Vaughn Betz, Jonathan Rose, FPGA Routing Architecture: Segmentation and Buffering to Optimize Speed and Density, Proceedings of the 1999 ACM/SIGDA seventh international symposium on Field programmable gate arrays

**Online Resources**

[7] Atmel support (2008). Datasheet of AT89S52, Retrieved May 5, 2010 from the web site: http://www.atmel.com/dyn/resources/prod\_documents/doc1919.pdf

**ملخص**

نحاول في هذا العمل وضع قالب لتقارير مشاريع ما قبل التخرج في كلية الهندسة المعلوماتية والاتصالات في الجامعة العربية الدولية. تركت بعض الصفحات فارغة قصداً بهدف البدء في الفصول والأقسام الرئيسية في صفحات مفردة لأن الطباعة النهائية ستكون على الوجهين.

يجب أن يعطي الملخص وهو جوهر المشروع فكرة عامة عن العمل ضمن صفحة واحدة.

يجب أن يتضمن الفهرس فقط قائمة الفصول التي تليه.

تتعلق عناوين الفصول والفقرات والفقرات الفرعية بطبيعة المشروع وموضوعه، والعناوين الموجودة في هذا القالب هي مجرد أمثلة.

يرجى محاذاة النص من الطرفين للحصول على شكل واضح له.

يرجى الاهتمام باللغة والصياغة الصحيحة، وعدم استعمال صيغة المتكلم (أنا، نحن) واستعمال عبارات هذه الدراسة أو هذا المشروع.

يمكن استعمال الملحقات لإضافة معلومات في نهاية التقرير دون تشتيت القارئ عن الموضوع الرئيسي.

يجب أن تتضمن المراجع العناوين وأسماء المؤلفين والتواريخ.

يجب أن تكون الصفحات الأخيرة المكتوبة باللغة العربية في صفحات زوجية لتكون في الطرف الآخر من التقرير عند الطباعة على الوجهين.

**الجامعة العربية الدولية**

الجامعة العربية الدولية AIU جامعة سورية خاصة أُحدثت عام 2005، خططها الدراسية والوثائق الصادرة عنها معتمدة ومصدقة من قبل وزارة التعليم العالي في الجمهورية العربية السورية.

تعمل الجامعة على تحقيق الأهداف الآتية:

* إعداد جيل متميز من الخريجين الجامعيين القادرين على تلبية الحاجات النوعية للمجتمع والنهوض به.
* الإسهام في البحوث العلمية النظرية والتطبيقية التي تخدم أغراض التنمية الوطنية، ويتم العمل على حث الأساتذة والعاملين الأكاديميين على البحث العلمي والمشاركة في المؤتمرات والندوات التي تنظم الأبحاث.
* تحقيق الشراكة مع الجامعات العربية والأجنبية المرموقة بهدف التطوير والتحديث المستمرين للعمل الأكاديمي والقيام ببحوث علمية مشتركة.
* استقطاب الكفاءات الأكاديمية والبحثية المتميزة عن طريق توفير البيئة المناسبة لعملها.

**الجامعة العربية الدولية** من الجامعات السورية الأولى التي جرى تأسيسها وافتتاحها، وقد تمكنت من اجتذاب الكفاءات التعليمية والبحثية والإدارية المتميزة، لإنشاء صرح متكامل من النواحي الأكاديمية والتنظيمية والإدارية. وتمكنت من تخريج كوادر من المبدعين والمتميزين من خلال توفير  بيئة تعليمية ترتكز إلى مقومات نوعية ومادية فريدة منها:

* الخطط الدراسية الحديثة والمتطورة المستندة إلى نظام الساعات المعتمدة.
* الأطر التعليمية المنتقاة بعناية كبيرة.
* المختبرات العلمية الحديثة، ومختبر للمكتبات الإلكترونية.
* المحفزات المادية والمعنوية للطلبة.
* تطبيق طرائق التدريس التفاعلي.
* التوجيه والإرشاد الأكاديمي والتربوي.
* مجموعة كبيرة من اتفاقيات التعاون العلمي مع جامعات محلية وإقليمية ودولية ذات سمعة مرموقة.
* اتفاقيات ومذكرات تفاهم متعددة مع العديد من مؤسسات المجتمع المدني.
* الحرم الجامعي اللائق والمزود بكافة المرافق العلمية والرياضية والترفيهية، والذي نشجعك على زيارته والتعرف على مزاياه.
* الأنشطة والأندية الطلابية بمختلف أنواعها: الرياضية والثقافية والعلمية والاجتماعية.

**في الجامعة العربية الدولية** سنوات الحياة الجامعية هي وقت للاستثمار في مستقبل الطالب. فالمعارف والخبرات التي يحصلها في قاعة المحاضرات والمختبرات ستساعده في تطوير ذاته، وستمنحه أسباب النجاح في التخصص الذي اختاره، والنشاط الطلابي الذي يمارسه سيساعده في توسيع أفقه، وفعاليات التدريب والأندية والرياضة ستمكنه من تطوير مواهبه، ولربما تساعده في اكتشاف مواهب جديدة.

ليستثمر وقته وذهنه وروحه في جامعتنا كي يجني فوائد عمله والوقت الذي كرسه في السنين القادمة. ونحن سوف نكون بجانب طلبتنا في كل خطوة على دربهم.



**الجامعة العربية الدولية**

**كلية الهندسة المعلوماتية والاتصالات**

**مشروع ما قبل التخرج**

**منصة توظيف و عمل حر**

تم تقديمه إلى

قسم الهندسة المعلوماتية

تقديم

**حلا مرعي تيمه عبد ربه   
غنى القصير سارة عكاشة**

بإشراف

**المهندس اسراء القاسمة الدكتور طلال شهابي  
  
تموز 2024**