

**Final Year Project Proposal**

**Drag Drop Deployed**

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**Supervisor:**

**List of Abbreviations and Acronyms**

**Table of Contents**

**Description Page #**

[Section – 1 1](#_Toc524954916)

[1.1 Project Identification 1](#_Toc524954917)

[Section – 2 5](#_Toc524954918)

[2.1 Background 5](#_Toc524954919)

[2.2 Outcomes and Benefits 6](#_Toc524954920)

[2.3 Objectives 6](#_Toc524954921)

[2.4 Research Approach 7](#_Toc524954922)

[2.5 Risk Analysis 8](#_Toc524954923)

[Section – 3 9](#_Toc524954924)

[3.1 Resources & Other Requirements 9](#_Toc524954925)

[Annexure–A: Project Schedule / Milestone Chart 11](#_Toc524954926)

[Annexure–B: Proposed Budget 12](#_Toc524954927)

[Annexure–C: Business Canvas Model 13](#_Toc524954928)

[Bibliography 14](#_Toc524954929)

**Final Year Project Proposal**

# Section – 1

# 1.1 Project Identification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Project Title: | | | | | | |
| **Online Donation System** | | | | | | |
| Group Leader (GL): | | | | | | |
| 1. | Name: | **Husnain Tahir** | | | | |
|  | Reg #: | 35013 | | | | |
|  | CGPA: | 2.7 | | | | |
|  | Mobile #: | 03158565808 | Email: | | Husnaintahir34@gmail.com | |
|  | Signature: |  | | | | |
|  |  | | | | | |
| **Group Members (GM’s):** | | | | | | |
| 2. | Name: | **Usama Salahuddin** | | | | |
|  | Reg #: | 34697 | | | | |
|  | CGPA: | 2.37 | | | | |
|  | Mobile #: | 03404767017 | | Email: | | Osama.rajput@gmail.com |
|  | Signature: |  | | | | |
|  |  | | | | | |
| 3. | Name: | **Usama Waheed** | | | | |
|  | Reg #: | 37189 | | | | |
|  | CGPA: | 2.0 | | | | |
|  | Mobile #: | 03360883677 | | Email: | | [kingusama588@gmail.com](mailto:kingusama588@gmail.com) |
|  | Signature: |  | | | | |
|  |  |  | | | | |
|  |  |  | | | | |
| 4 | **Name**: Ahtsham Khan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Reg #**: \_\_36431\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **CGPA**: \_\_\_2.0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Mobile** #: \_03112463674\_\_\_\_\_\_\_\_\_\_\_\_\_ Email: shamikhan1231@gmail.com\_\_\_  **Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| What technology is core to your product?  |  |  |  | | --- | --- | --- | | [ ] 3D/4D Printing | | [ ] Augmented Reality / Virtual Reality | | [ ] Big Data, Artificial Intelligence | | [ ] Blockchain | | [ ] Cloud | | [ ] Neurotech | | [ ] Robotics | | [ ] Shared economy | | [ ] The Internet of Things | | [ ] Wearables, Implantables | | **🗹** Others (specify): | Cloud-native development | | | | | | |
|  | | | | |
| What is the target market(s) for the products?  |  |  |  | | --- | --- | --- | | [ ] Automotive, aviation, marine | | [ ] Business, marketing, finance | | [ ] Defence, security, safety | | [ ] Education and training | | [ ] Environment, water management | | [ ] Entertainment, tourism, sport/recreation | | [ ] Food, livestock, agribusiness | | [ ] Healthcare | | [ ] Infrastructure, housing & transport | | [ ] Mining equipment technology & services | | [ ] Oil, gas, energy | | [ ] Textiles, clothing, footwear | | **🗹** Others (specify): | Freelancers & small businesses | | |  | |  | | | | | |
| Other Organizations Involved in the Project: | | | | |
| Academic Organizations: | | | | |
| *#* | *Organization Name* | | | *Role / Contribution* | |
|  | Iqra University | | | Support and supervision | |
|  | - | | | - | |
| **Industrial Organizations:** | | | | | |
| *#* | *Organization Name* | | *Role / Contribution* | | |
|  |  | |  | | |
|  |  | |  | | |
| **Funding Organizations:** | | | | | |
| *#* | *Organization Name* | | | *Role / Contribution* | |
|  |  | | |  | |
|  |  | | |  | |
| Key Words: | | | | | |
| Cloud-Native, Containerization, auto-Deployment | | | | | |
| Research and Development Theme:You develop we operate! | | | | | |
|  | | | | | |
|  | | | | | |
| Project Status: (Please mark 🗹)ɒ **🗹** New [ ] Modification to previous Project  [ ] Extension of existing project | | | | | |
| Project Duration: | | 10 Months | | | |
| Proposed Budget: | | 554,000 PKR | | | |
|  | | | | |
| The Problem:In this modern world of technology where everything is one tap away from you the businesses are growing quiet fast. However, in this region of the world we have a lack of advancement in the techno race, which is going on out there. Our freelancing community, small businesses and entrepreneurs develop their products which itself is a tricky process and afterwards they have to deal with operational issues such as deployment and maintenance. The problem is to develop a system that will take care of this operational part. | | | | |
|  | | | | |
| Following are some of the Current State of the Art (well-known -identify the best known if possible) existing solutions to this problem. Their known strengths and weaknesses are also provided. | | | | |
| **Bitballoon :**  This is the platform which supports automatic deployment but it only supports static websites  **Netlify Drop :**  This is the platform which supports automatic deployment and it also support applications based on ci/cd model. | | | | |
|  | | | | |
| Our solution will address the following weaknesses of above mentioned solutions. | | | | |
| Our application will just take your code and a list of dependencies, which are required to run the application and boom the application is live .It will support scaling and the idea of continuous integration and continuous deployment using cloud-native methods. | | | | |
|  | | | | |
| We will use the following techniques to achieve improvements mentioned above. | | | | |
| The user will just drag a file directory which contains the project file and uploads it on our application.  Our application then will initialize a container where the users application will run .further maintenance and updates will be made through a version control system  so we will be using these technologies which are going to fulfill the meets and requirements of our projects such as:   * **Mern Stack-** it’s the web application development stack which consist of mongoDb, node.js, express.js and React these technologies will help us to develop an application where users upload there projects. * **Docker engine-**Docker Engine is the underlying client-server technology that builds and runs containers using Docker's components and services * **Docker containers-** these are the containers in wich the clients application will run   **kubernetes**-it is an open-source container-orchestration system for automating application deployment, scaling, and management | | | | |
|  | | | | |
| Synopsis:Small businesses and entrepreneurs in this modern world always need to have an application or a website to support their business. However, having a website is a difficult task and making it operational is more trickier. We want to make an application which will resolve this issue. And provide an easier way for these business to run their applications and websites without any fear of crash . | | | | |
|  | | | | |

# Section – 2

# 2.1 Background

|  |
| --- |
| **Scope of the Project:** |
| <type here> |
| **Literature Review:** *(Detailed summary of what all has been done internationally in the proposed area quoting references and bibliography.* ***Maximum 1500 words.****)* |
| <type here> |
| **Challenges:** *(Please describe the challenges, specific to this research topic, currently being faced internationally.* ***Maximum 500 words.****)* |
| <type here> |
| **Motivation and Need:** *(Please describe the motivation and need for this work.* ***Maximum 500 words.****)* |
| <type here> |

# 2.2 Outcomes and Benefits

|  |
| --- |
| Expected Outcomes: *(Provide a list of proposed project outputs including publications, databases etc.)*<type here> |
| Key Benefits and Beneficiaries: *(Please identify clearly the benefits and potential customers/beneficiaries of the project.)*<type here> |
| Technology Transfer/Diffusion Approach: *(Please describe how the outputs of the project will be transferred to the beneficiaries/customers. Maximum 500 words.)*<type here> |

# 2.3 Objectives

|  |
| --- |
| *(Please describe the measurable objectives of the project and define the expected results. Use results-oriented wording with verbs such as ‘to develop..’, ‘to implement..’, ‘to research..’, ‘to determine..‘, ‘to identify..’* ***The objectives should not be statements and should actually specify in simple words what the project team intends to achieve (something concrete and measurable/ deliverable). Fill only those objectives that are applicable to the proposed project****.)* |
| **Research Objectives:** *(if any)*   * <type here>   **Academic Objectives:** *(if any)*   * <type here>   **Commercial Objectives:** *(if any)*   * <type here>   **Other Objectives:** *(if any)*   * <type here> |

# 2.4 Research Approach

|  |  |  |  |
| --- | --- | --- | --- |
| Development / Research Methodology: *(Please describe the technical details and justification of your development and research plan. The block diagrams, system flow charts, high level algorithm details etc. have to be provided in this section.* ***Maximum 3000 words.****)* | | | |
| <type here> | | | |
| Key Milestones and Deliverables: *(Please list and describe the principal milestones and associated deliverables of the project. The timing of milestones is also to be shown in the Gantt chart in Annexure-A.* ***Quarterly deliverables are preferred****.)* | | | |
|  | | | |
| **S. No.** | **Elapsed time since start of the project** | **Milestone** | **Deliverable** |
| 1. | Week 01 – 04 |  |  |
| 2. | Week 05 – 08 |  |  |
| 3. | Week 09 – 12 |  |  |
| 4. | Week 13 – 16 |  |  |
| 5. | Week 17 – 20 |  |  |
| 6. | Week 25 – 24 |  |  |
| 7. | Week 25 – 28 |  |  |
| 8. | Week 29 – 32 |  |  |
| 9. | Week 37 – 36 |  |  |
| 10. | Week 37 – 40 |  |  |
| (Please add more rows if required.) | | | |

# 2.5 Risk Analysis

|  |
| --- |
| *(Please list the risks that may cause delays in, or prevent implementation of, the project. For each risk estimate the likelihood, likely impact/consequences on the project and steps to minimize/avoid the risk.)* |
| |  |  |  |  | | --- | --- | --- | --- | | **Risk** | **Likelihood**  **(Low, Med, High)** | **Impact** | **Mitigation** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |

# Section – 3

# 3.1 Resources & Other Requirements

|  |  |
| --- | --- |
| Project Team: ***The numbers in the table below must tally with the HR Cost sheet in the Budget file.*** | |
| ***Title / Position*** | ***Number*** |
| Team Leads | 1 |
| Researchers / Developers | 2 |
| Researcher / Development Assistants | 2 |
| Support Staff | 1 |
| Contract Staff (please specify) |  |
| Others (please specify) |  |
| Add more rows if required |  |
| Team Structure: | | |
| **https://lh6.googleusercontent.com/jYTPC4OK1Fr501_6tepLbnASrGqH9yNUtoeAJcmnKsxwybmoo-0Vn1AHzDW8xDFq_jz7AeOmPgfzxiFPYvkeO_IGpxnlwFx8QJljDs_-mvEeF4ihwd-oZL2zA9roa2s2_dyH0EQ**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Title/Position**  **(of each member)** | **Role/Key Responsibilities** | **Minimum Qualification Required** | **Expertise / Background Required** | **Minimum Experience Required (years)** | | Project manager | To manage all processes in the project | BS(CS,SE) | Manage The  Team.,  Build business  logics of application. | 5 years | | SW Designer | To design the models and diagrams that helps | BS(SE) | Knowledge of cloud-native development,  Estimate project  Cost, Build business logic of application | 3 years | | DevOps engineer | To check develop a system based on cloud technologies | BS(SE,CS) | Hands on experience of linux, docker ,kubernetes | 2 years | | Programmers | To develop the system as per requirements. | BS(SE,CS) | Framework  Experience,  Experience  In developing web applications, | 4 years | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | |

**Remarks:**

1. Name & Signature of Supervisor:

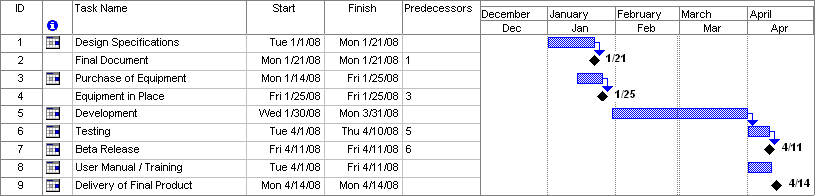
2. Name & Signature of Co-Supervisor:

3. Name & Signatures of FYP Coordinator:

# Annexure–A: Project Schedule / Milestone Chart

***(Project schedule using MS-Project (or similar tools) with all tasks, deliverables, milestones, cost estimates, payment schedules clearly indicated are preferred.)***

***Example:***



**SPECIMEN**

# Annexure–B: Proposed Budget

Please use the embedded Excel Worksheet for providing budget details.

Double click the icon to open the worksheet.



# Annexure–C: Business Canvas Model

# Business Model Canvas

# Bibliography

<type here>