Feasibility Study for A Web Publishing System

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# Introduction/ Background

## Statement of work

Building a Web Publishing System to facilitate post, review and read articles.

## Scope of Work:

Constructing a Web application to allow an editor to manage and communicate with a group of reviewers and authors to publish articles to the website and make the articles available for public readers, also create database to store Users Info and articles, buy servers to carry out the system. we will need PCs with suitable programming language editors, and some course for the developer team if needed.

## Location of Work:

The work i will take place in the head office of xz company.

## Period of Performance:

The work will start on 2 Feb 2023

The work will end on 13 OCT 2023

Number of work hours per day:8 hours

Number of work hours per week:40 hours

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 |
| Requirement analysis | ✔ |  |  |  |  |  |  |  |
| Design |  | ✔ |  |  |  |  |  |  |
| Implementation and coding |  |  | ✔ | ✔ | ✔ |  |  |  |
| Unit testing |  |  |  |  |  | ✔ |  |  |
| Integrating |  |  |  |  |  |  | ✔ |  |
| System testing |  |  |  |  |  |  |  | ✔ |
| Deployment |  |  |  |  |  |  |  | ✔ |

## Deliverables Schedule:

Requirements – by the end of first month: the file that contain detailed description of all features the system will, may, or won’t have will be provided.

Design– by the end of second month: the system design will be done which show the design of the system

Deployment-by the end of 9th month the system will be done and will be delivered to the client to start using it.

## Applicable Standards:

The app must comply with the Egyptian Ministry of Commerce and Security

## Acceptance Criteria:

There are functional and nonfunctional requirements the system must meet.

-For non-functional requirements: system should be able to serve 1000 concurrent active users without degrading in performance, UI should be user friendly, database can store thousands of terabytes of data

-For functional requirements: Reader should be able to access articles and search for any writer or article by name, editor should be able to update and delete info, articles, writer should be able to post articles and get reviews and finally reviewers should be able to access article to rating them

## Special Requirements:

we need seniors testers have experience in such apps, joiner and midlevel developers have experience in different framework and programming languages, new PCs with high processors powers and good connection to the internet

# Business Objective

Provide and platform to facilitate publishing and read articles this will help writers to publish their work and get reviews also will make it easy for readers to access many articles in one place

# Current Situation and Problem/Opportunity Statement

The need for online web publishing system reader, reviewers and writers during lockdown duration.it saves time and money and improve productivity

# Critical Assumption and Constraints

unstable internet in Egypt and still some people prefer offline work and commination.

# Analysis of Option and Recommendation

There are two options to manage this project waterfall model and agile model.

I will use waterfall models because I think requirements are clear and no need for many changes during development.

# Preliminary Project Requirements

All clients have accounts with their role in the system, Reader should be able to access articles and search for any writer or article by name, editor should be able to update and delete info ,articles , writer should be able to post articles and get reviews and finally reviewers should be able to access article to rating them

# Budget Estimate and Financial Analysis

The budget targeted to this project is 800,000$.

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# Schedule Estimate

|  |  |  |  |
| --- | --- | --- | --- |
|  | M1 | M5 | M8 |
| Start of project | ✔ |  |  |
| Implementation Completed |  | ✔ |  |
| Testing Completed |  |  | ✔ |
| Delivered |  |  | ✔ |

# Potential Risks

|  |  |
| --- | --- |
| **Ranking** | **Potential Risk** |
| 1 | Prices are not stable these days |
| 2 | Inaccurate estimations |
| 3 | Bad timing where the world face lots of problems |
| 4 | current world events |
| 5 | Low of engaged stakeholders |
| 6 | Vague requirements |
| 7 | Not enough seniors’ testers |
| 8 | Incorrect budget estimation |
| 9 | Scope Creep |

# Stakeholder analysis

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|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Level of Interest** | **Level of Influence** | **Potential Management Strategies** |
| **Project manager** | High | High | Mange closely |
| **Writer** | High | Medium | Keep satisfied |
| **Reviewer** | Low | Medium | Keep satisfied |
| **Editor** | High | Medium | Keep informed |
| **National Security Representative** | Low | High | Keep satisfied |
| **Sponsor** | High | High | Mange closely |

# Exhibits

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