System

Requirements

Specification

for

aiR Exploration

Submitted by

Ria Ann G. De la Cruz

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INTRODUCTION

Requirements Specification is a document that holds the data about the user, and the requirements of the system (Sommerville, 2016). Things that involve the system requirements, and the users should be clear, complete, appropriate, and understandable. Hence, in creating a requirement specification will help the team including the stakeholders, or everyone who has a big role in the software development on how the project will go.

1.1 PURPOSE

In line with this, the project namely 'aiR Exploration' is a travel website created to introduce everyone to diverse places around the world, and hear stories from different people.

1.2 INTENDED AUDIENCE AND READING SUGGESTIONS

This project is a blog website intended for everyone who want to discover new places, and learn new culture or to prepare the users on what awaits them at the other end of the world. The project is useful for all people especially to travelers.

1.3 PROJECT SCOPE

The project aims to create a place where everyone can enjoy learning new stuffs not only about the places but even the culture, food, and interesting things that may be discovered along the way of life's journey.

The project is a blog post website created with the help of Django framework – web framework written in Python (Django, 2015). It consists of four pages namely, Home, Log- in, Log out, and Register. The website implements a write and read feature as the user can log-in, register, and read post.

1.5 REFERENCES

https://docs.djangoproject.com/en/4.0/ref/contrib/auth/

https://www.youtube.com/watch?v=mOS0L5Lb2u0

https://krazytech.com/projects

Software Engineering by Ian Sommerville

OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

The travel blog website database system stores the following information.

- **Post**

  It includes the title of the article to be posted, the updated date, the name of the author, the attached image, and the content of the article.

- **Register**

  It includes the user's username, first name, last name, and email. This information may be used in logging in the website, checking for user's authentication in accessing the database.

2.2 PRODUCT FEATURES

The product is consisted of four web pages with the main page having three other sections. The main page is consisted of the home, content, and about sections. The home sections feature a sliding presentation of images, while the content section includes the blog post or articles. Additionally, the about section talks about the creator or organization behind the product and its purpose of doing so.

When it comes to the login page, it accepts user input of users who are already part of the database. It also includes a check box for toggling of password visibility. The register page also accepts user input, but it also takes the user's username, first name, last name, email, and password which all has their own input validation that return a statement when the user input is not accepted. Lastly, the log out page inform users for logging out of the system and has two buttons either to go back to the main page or log in again.

2.3 OPERATING ENVIRONMENT

Operating environment for the travel blog website is as listed below.

- client/server system
- Operating system: Windows.
- database: Django built in database
- platform: Visual Studio/Django

2.5 DESIGN and IMPLEMENTATION CONSTRAINTS

1. How the system accepts the form inputs.
2. Validation error given a specific input condition.
3. Implementing password visibility in logging in.
4. Implementing the database by using a centralized data system.

2.6 ASSUMPTION DEPENDENCIES

Let us assume that this is a this is a blog post website system and it is used in the following application:

- Reading of articles
- Logging in the system'
- Adding an article given having the admin permission

SYSTEM FEATURES AND REQUIREMENTS

3.1 Functional Requirements

The product accepts a user log-in and user's information through the register page. It output a database written articles which includes images.

3.2 External Interface Requirements

The user of the product can interface in four different pages with different functions. Using the Home text, the user automatically proceeds to the home page without the navigation bar. However, if the user clicks on the Content, or About text it will automatically slides to the specific sections inside the main page. The product also has a log-in button that bring users to the log-in page. The log-in page has two forms where users can write given a specific instruction. Additionally, it also has show password checkbox and a submit button that access the admin and check for validity. It also has a text below the submit button that redirect to the register page if the user is not yet part of the system.

Under the registration page includes text forms asking for users' information, and a submit button. In log-out page, it includes to button that redirect to the main page, and log-in page.

3.3 System Features

The system accepts user inputs and validate it with given required condition. It can also read images, but only through the admin section.

3.4 Nonfunctional Requirements

The product is a responsive website. The features like buttons and text rearrange as the website reshape, depends on the user's needs.