Software Engineering and InformationSystem Design

Software Requirement Specification

Project: Online Blogging Management System

Online Blogging Management System

Introduction

Blogging has become a very popular these days as new blogs are being posted in every second, every minute, every hour of a day. A blog is a regularly updated website or web page, typically one run by an individual or small group, that is written in an informal or conversational style.

The purpose of online blogging system is to automate the current manual system by the help of computerized equipment. It is much more sufficient than manual system as more data and information can be stored in a computer rather than physically. And it is much more fast than analog system and can be stored for a longer period of time.

Technology

We will use **Django** to build our blog website. The biggest advantage of using Django to make a blog or web app is pretty clear, it's speed. **Django** is a high-level **Python** Web framework that encourages rapid development and clean, pragmatic design. Django is based in Python, which has time and time again outperformed both **Ruby** and **PHP**. In today's day of mobile websites and apps, it is important that you are relaying data as quickly as possible with making as few and lightweight server calls as possible.

Development tools: Visual Studio Code

Client: Any web browser

Current System

Currently the system is manual, so it is less efficient. All the information about the posters and their posts are maintained manually. So, man power is needed to maintain all of this which is costly as well. And the process to create and publish something is also critical.

> **Security Issues:** Data can easily be shared with others easily without any permissions of the administrator. So, it can be really harmful as many important data can be easily shared.

New Online System

The new system is much more efficient than the old manual system. The data can be safely stored as only the administrator can have the access to the original raw data. The other benefits are like:

1. Fast
2. Free of cost from the user
3. Faster feedback
4. User friendly (Articles can be easily published and seen)
5. Greater privacy

Keywords:

Django, Python, Html, Database,CSS

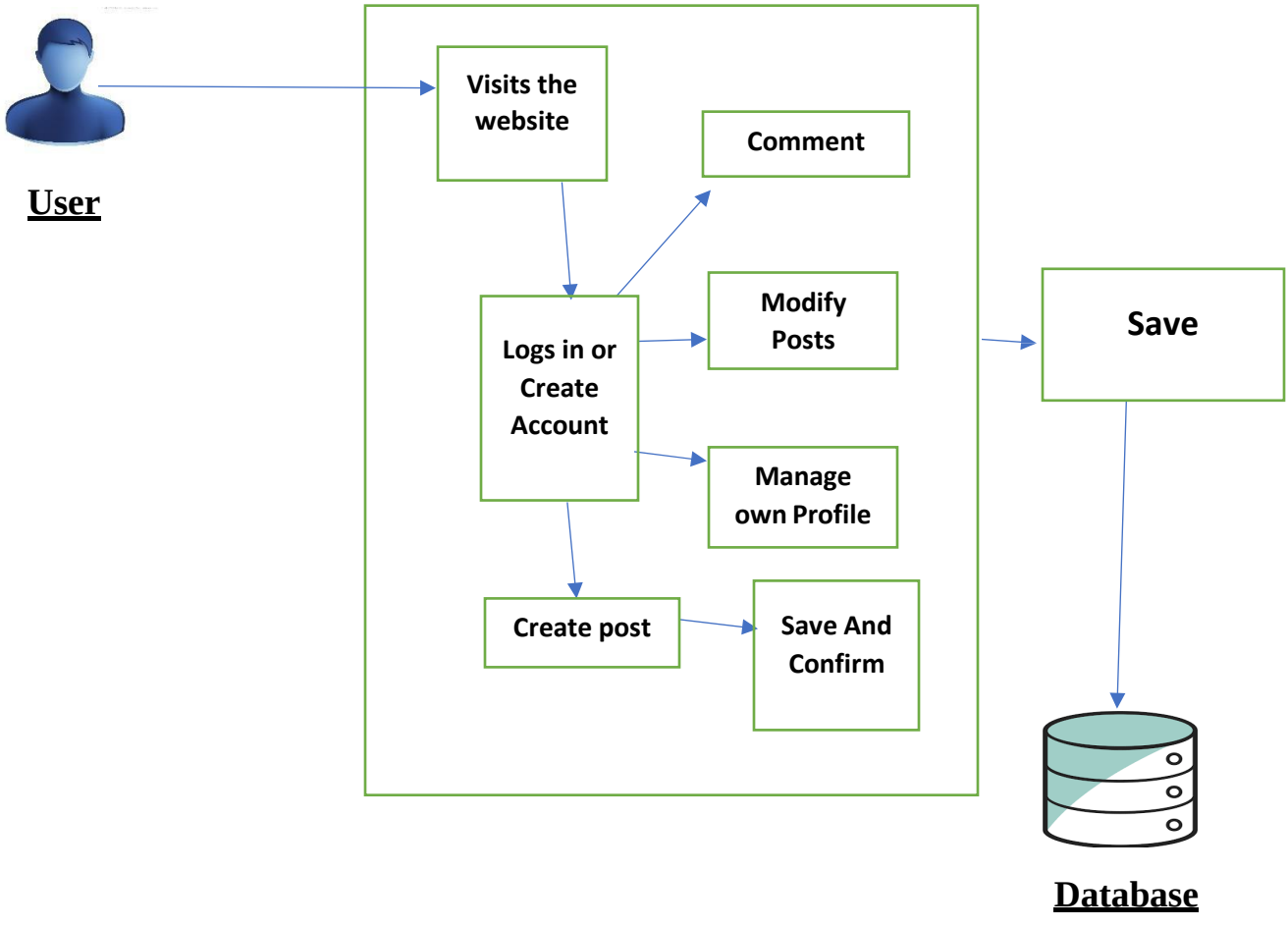
Challenges

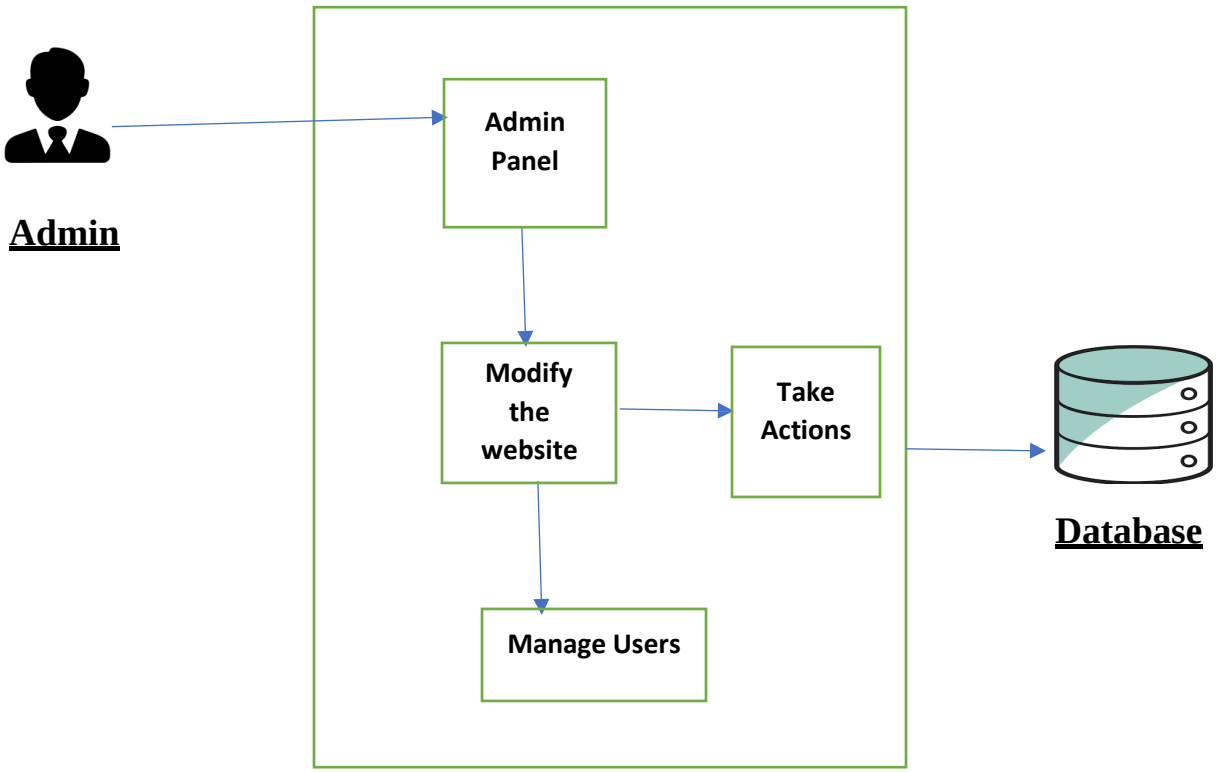
Challenges in making a full working online blogging system:

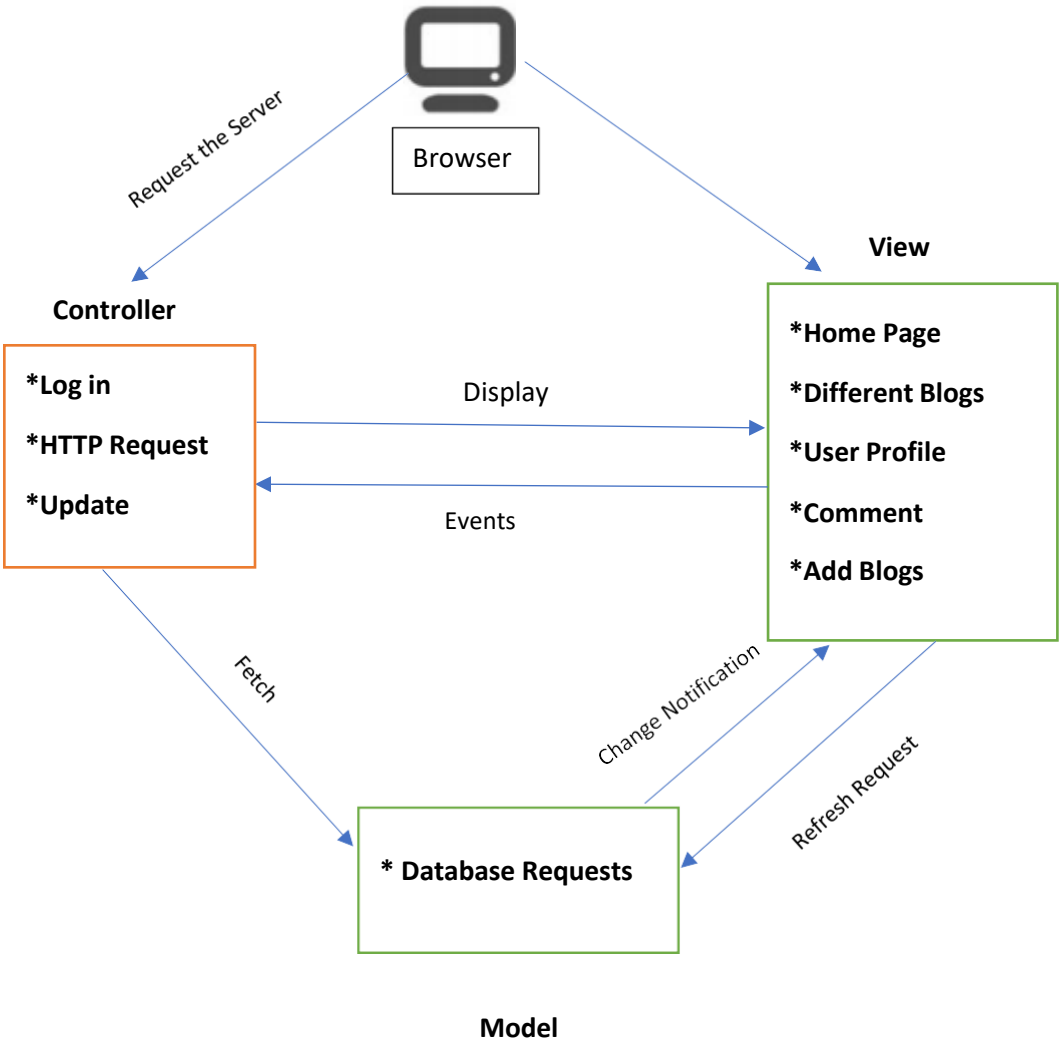
1. **Storage Issue:** The issue of storage can be a major hazard in building a fully functional blogging website for a broad number of users. Because the grater the number of users, the more storage in database is needed to store all the information. So to store them we need **Big Data** concept which is not currently possible with the limited resources we have.

2. **Lack of Security:** To ensure fully air tight security, we need more developers to work. But with the limited budget we have, it's not possible for us.

System Component and Relationship




Admin
Admin Panel
Modify the website
Take Actions
Manage Users
Database



Non-Functional Requirements

1. Productivity
2. Efficiency(Lesser use of data storage)
3. Fast searching
4. Security ensurance
5. Manageability
6. Environment friendly
7. Data integrity
8. Usability
9. Maintainability
10. Scalability

Functional Requirements

1. Home page with different blogs with a sorted view by category.
2. Information and details about blogs.
3. Detailed view of the authors.
4. Comment and reply system in each blog.
5. Sign up and Log in system for each user.
6. Setting up Profile picture.
7. Admin can view and delete any user or post.
8. Feedback system.