High Level Design (HLD)

Blog Creator Web Application

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Abstract

A blog (a shortened version of "weblog") is **an online journal or informational website** displaying information in reverse chronological order, with the latest posts appearing first, at the top. It is a platform where a writer or a group of writers share their views on an individual subject. The main purpose of a blog is to connect you to the relevant audience. Another one is to boost your traffic and send quality leads to your website. Blogging has quickly become one of the most popular ways of communicating and spreading information and news. There are literally millions of blogs online (don't worry, you can make yours stand out and get noticed!). This work discusses the implementation of Django rest framework, python code in back end development and HTML ,CSS,HTTP response in front end development to give an application to user where they can create their blog post ,update and publish them. Users can comment and like/dislike a post.

1.Introduction

1.1 Why this HLD document?

HLD -- High Level Design (HLD) is the overall system design - covering the system architecture and database design. It describes the relation between various modules and functions of the system. data flow, flow charts and data structures are covered under HLD. High Level Design gives the overall System Design in terms of Functional Architecture details and Database design.

The HLD will:

- Present all of the design aspects and define them.
- Describe the user interface being implemented.
- Describe the hardware and software interfaces
- Describe the performance requirements.
- Include design features and the architecture of the project.

1.2 Scope

The HLD documentation presents the structure of the system, such as the database architecture, application architecture(layer), application flow(Navigation),and technology architecture. The HLD uses non-technical to mildly-technical terms which should be understandable to the administrators of the system.

1.3 Definitions

Term	*Description*
Database	Collection of all the information monitored by this system.
IDE	Integrated Development Environment
HTML	HyperText Markup Language
CSS	Cascading Style Sheets

2.General Description

2.1 Product Perspective

Blog Creator Web application is an application where user gets a platform to create posts, update, delete , comment and like/dislike posts.

2.2 Problem statement

- Create an web application to facilitate the blog creation capabilities.
- Create infrastructure in such a way that any user can create their blog.
- Allow user to use different type of formatting for text. Eg: we have seen that in MS WORD.

2.3 Proposed Solution

To create application, back end development is done on IDE of Pycharm using Django rest framework , python to facilitate interaction of server to database. Front end development is done using HTML,CSS, Jquery to interaction of server to database. Blog Creator Web application is an application where user gets a platform to create posts, update, delete , comment and like/dislike posts.

2.4 Tools used

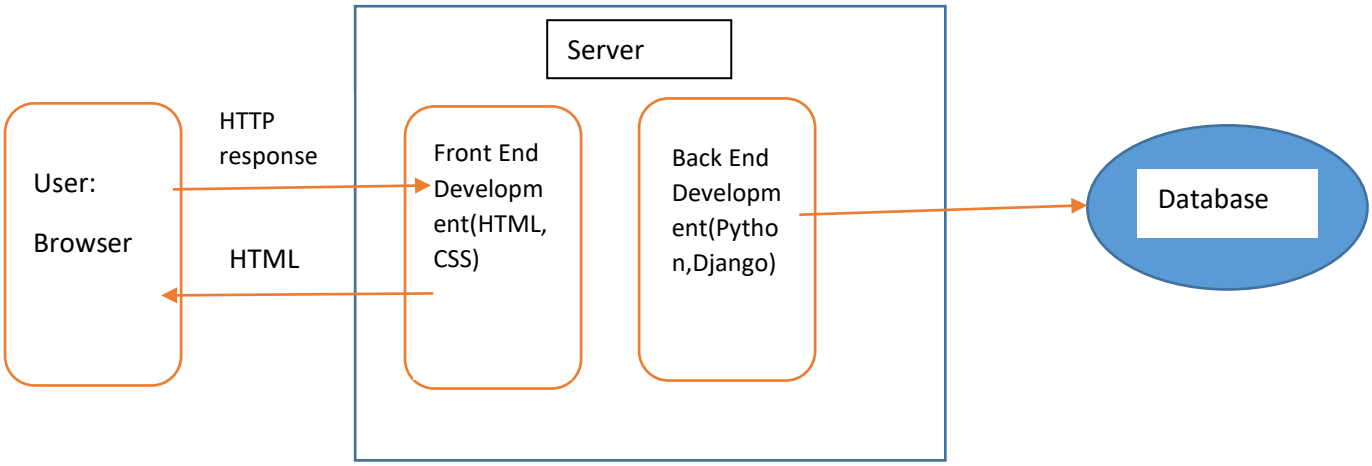
- Pycharm is used as IDE.
- Tinymce used as rich text editor
- Sqlite used to retrieve,update,insert and delete database.
- Front end development is done using HTML,CSS.
- Python, Django used for back end development.
- Github is used as version control system.

2.5 Constraints

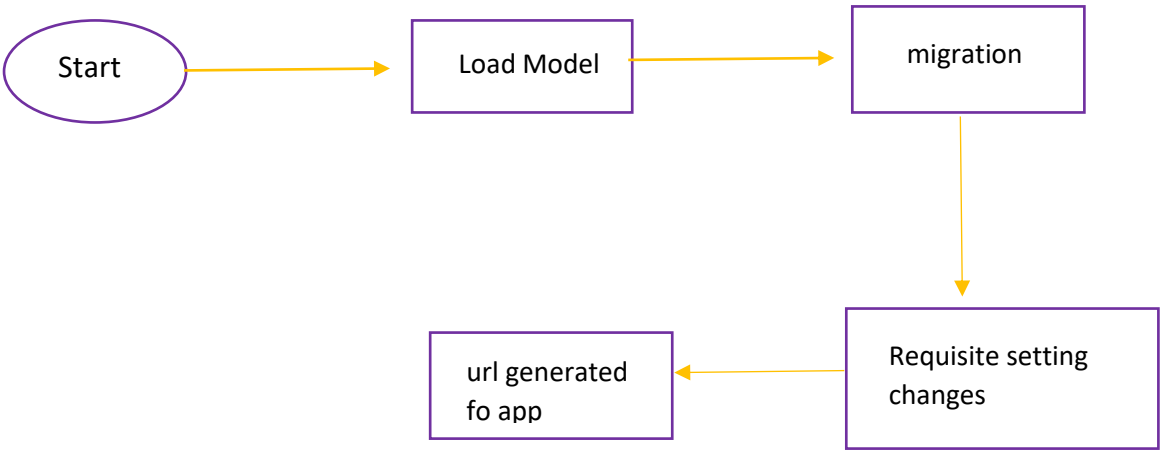
This web app must be user friendly ,possible and users should bot be required to have knowledge of any development/workings.

3.Design Details

3.1 Architecture/Design



3.1.1 Deployment Process



3.2 Error Handling

Should errors be encountered, an explanation will be displayed as to what went wrong? An error will be defined as anything that falls outside the normal and intended usage.

4.Performance

The purpose of the application is to provide a user friendly , secured platform to create, update ,comment, like/dislike posts and reach to the world through their voices, thoughts, knowledge.

4.1 Reusability

The code written and the components used should have the ability to be reused with no problems.

4.2 Application compatibility

The different components for this project will be using Python as an interface between them. Each component will have its own to perform, and it is the job of the Python to ensure proper transfer of information.

4.3 Deployment

5.Conclusion

This web app for blog creation should help the user for hassle free to create, retrieve, update posts and also comment, like/dislike posts. A feedback form is provided for registered user to give inputs for further improvement. At back end , design will be improved for better and new functionalities.