Low Level Design

Blog Creator Web Application

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1. Introduction

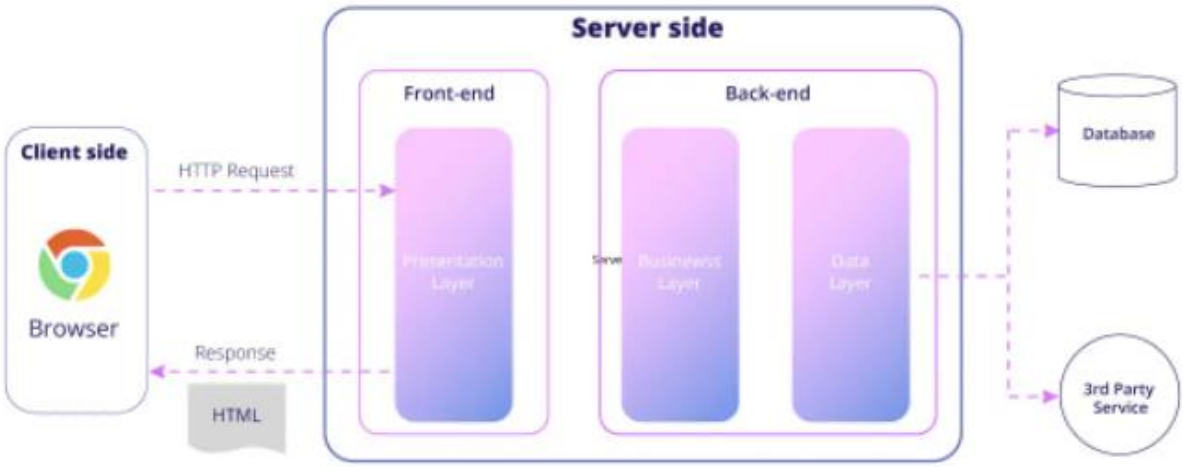
1.1. What is Low-Level design document?

LLD, also known as a detailed design, is used to design internals of the individual modules identified during HLD i.e. data structures and algorithms of the modules are designed and documented. LLD describes each and every module in an elaborate manner so that the programmer can directly code the program based on it.

1.2. Scope

The low-level design specifies the in-detail report of all the modules.Low-level design is created based on the high-level design. LLD describes the class diagrams with the methods and relations between classes and program specs.

2.Architecture



3.Architecture Description

3.1 Server side description

The server side consists of back-end and front-end development. The Back-end development using python, Django rest framework which works through controller python manage.py interacting with database ,python models. The Front end development make use of HTMLs, HTTP response to interact with the client side.

3.2 Database

Database used for the project is SQLite. SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine. SQLite is the most used database engine in the world

3.3 Client side description

The user via a browser sends a request through HTTP responses to server .The server connects with code and database through HTML pages. The user views and uses the front end output such as register ,login ,created blog, edit blogs, view blogs, like and comment on blog .

3.4 HTTP response description

An HTTP response is made by a server to a client. The aim of the response is to provide the client with the resource it requested, or inform the client that the action it requested has been carried out; or else to inform the client that an error occurred in processing its request.

3.5 HTML pages

HTML (HyperText Markup Language) is the code that is used to structure a web page and its content. The Front end development make use of HTMLs, HTTP response to interact with the client side.

3.6 Back end development

Back end development refers to the server side of an application and everything that communicates between the database and the browser. This type of web development usually consists of three parts: a server, an application, and a database. Code written at back end is what communicates the database information to the browser. Python, Django used for back end development of the application.

3.7 Front end development

Front end development manages everything that users visually see first in their browser or application. Front end developers are responsible for the look and feel of a site. Analyzing code, design, and debugging applications along with ensuring a seamless user experience. HTML, CSS, JQUERY used for front end development of the application.

4.Unit Test Cases

Test Case Description	Pre-Requisite	Expected Result
Verify whether the Application URL is accessible to the user	1. Application URL should be defined	Application URL should be accessible to the user
Verify whether the Application loads completely for the user when the URL is accessed	. Application URLis accessible . Application is deployed	The Application should load completely for the user when the URL is accessed
Verify whether the User is able to sign up in the application	1. Application is accessible	The User should be able to sign up in the application
Verify whether user is able to successfully login to the application	. Application is accessible . User is signed upto the application	User should be able to successfully login to the application
Verify whether user is able to see input fields on logging in	. Application is accessible . User is signed upto the application 3. User is logged in to the application	User should be able to see input fields on logging in
Verify whether user is able to edit all input fields	. Application is accessible . User is signed upto the application . User is logged into the application	User should be able to edit all input fields
Verify whether user gets Submit button to submit the inputs	. Application is accessible . User is signed upto the application . User is logged into the application	User should get Submit button to submit the inputs
Verify whether user is presented with recommended results on clicking submit	1. Application is accessible 2. User is signed up to the application 3. User is logged in to the application	User should be presented with recommended results on clicking submit

Verify whether the recommended results are in accordance to the selections user made	1. Application is accessible 2. User is signed up to the application 3. User is logged in to the application	The recommended results should be in accordance to the selections user made
Verify whether user has options to filter the recommended results as well	1. Application is accessible 2. User is signed up	User should have options to filter the recommended results as well