PERSONAL WEBSITE SDLC DOCUMENTATION

LIST OF CONTENTS

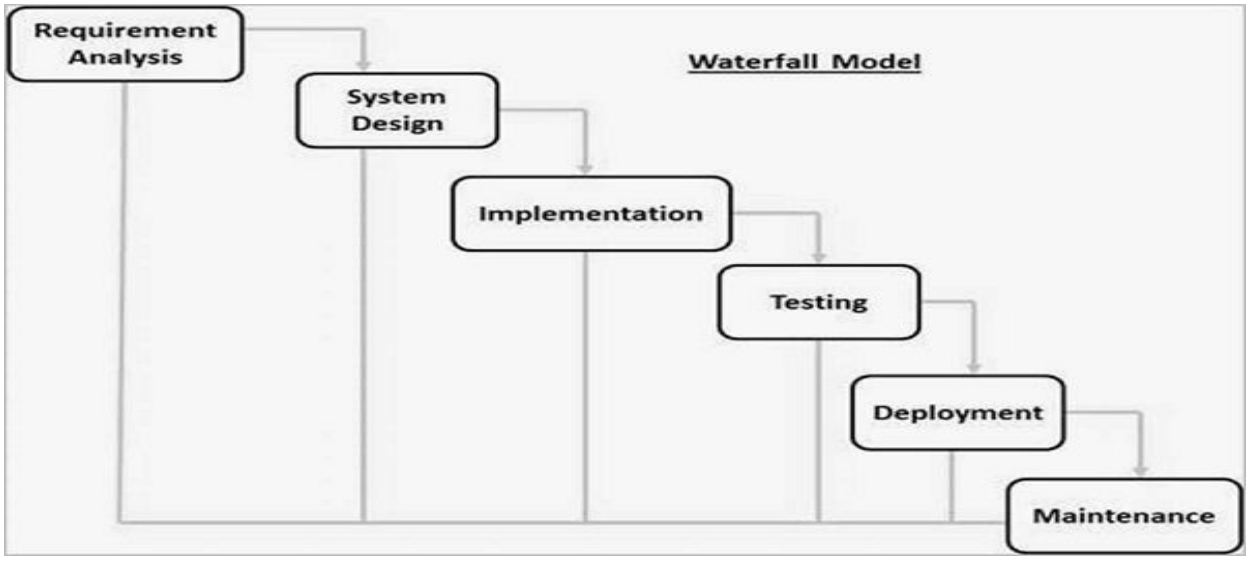
1.What is SDLC and different stages of SDLC:

- Software development Life Cycle is a process in which the tasks performed at every step in the -software development method.
- It consists of a complete plan explaining the way to develop, maintain and replace specific software system.
- SDLC models define phases of the software cycle and the order in which those phases are executed.
- The six stages of the SDLC are as follows:
    1. Planning and Requirements
    2. Design
    3. Development
    4. Testing
    5. Feedback and Change.
    6. Deployment and Maintenance.

- There are different SDLC Models that are present such as
    1. Waterfall Model
    2. Iterative Model
    3. Spital Model
    4. Big Bang Model
    5. V-Model
- In the creation of this website, the **Waterfall Model** has been used

1.1 The Waterfall Model:

The Waterfall Model is a sequential model that divides software development into different phases. Each phase is designed for performing specific activity during SDLC phase.



2.Problem Statement :

To create a personal website that has specific utilities for all it's viewers and at the same time making all the web-pages look aesthetically appealing and responsive .

3.Planning and Requirement analysis :

The first stage of the sdcl is the planning where the overall outline of the website is planned and the requirements are gathered and listed down.

The basic requirements for my website are as follows:

1.Theme

2.Exlcusive web-pages for the contents of the web-pages such as About,Gallery,Utilities,Professional Achievements,etc.

3.General layout of the website.

4.Text editor.(Visual Studio code)

5.Repository for remote access.(GitHub)

6.A local host.(IIS)

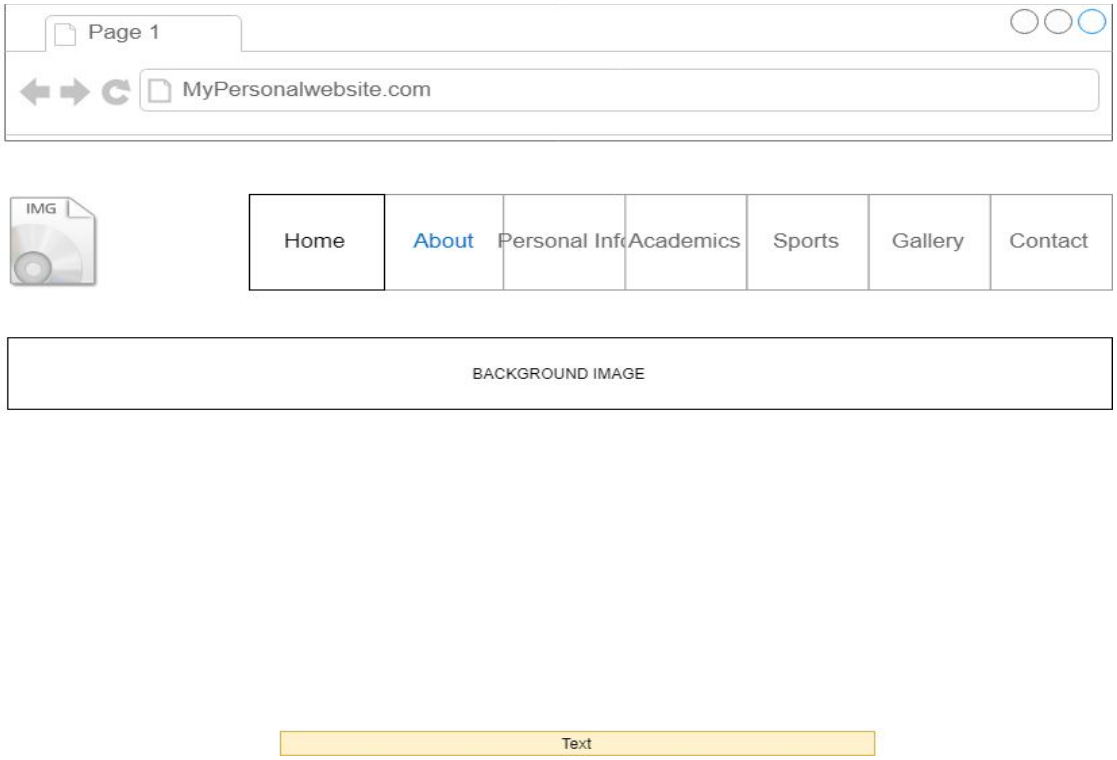
7.A platform to test performance of the website.(Google Lighthouse)

8.Images and content for the website.

9.Wireframes(draw.io)

4.Design:

In this phase, the requirements gathered are used as an input and software architecture that is used for implementing system development is derived. Wireframes are main aspects for designing the website and are made using draw.io.



5.Development:

The actual source code will be developed in this phase based on the designed wire frame and requirement analysis. This is the phase where the actual coding starts and ends in a website . While developing the code ,best practices that suits the industrial standards are required to be followed.

1. HTML5 is used for defining contents that need to go into the website.

2. CSS is used to style the website contents into an attractive and appealing manner.

3. Jquery plugins are used for image slideshow in the gallery and also for coding the utilities in the website.

6.Testing:

The testing part is arguably one of the most important. It is impossible to deliver quality software without testing.

Methods of testing include:

1.Quality of code.

2.All pages are live and no dead pages are found.

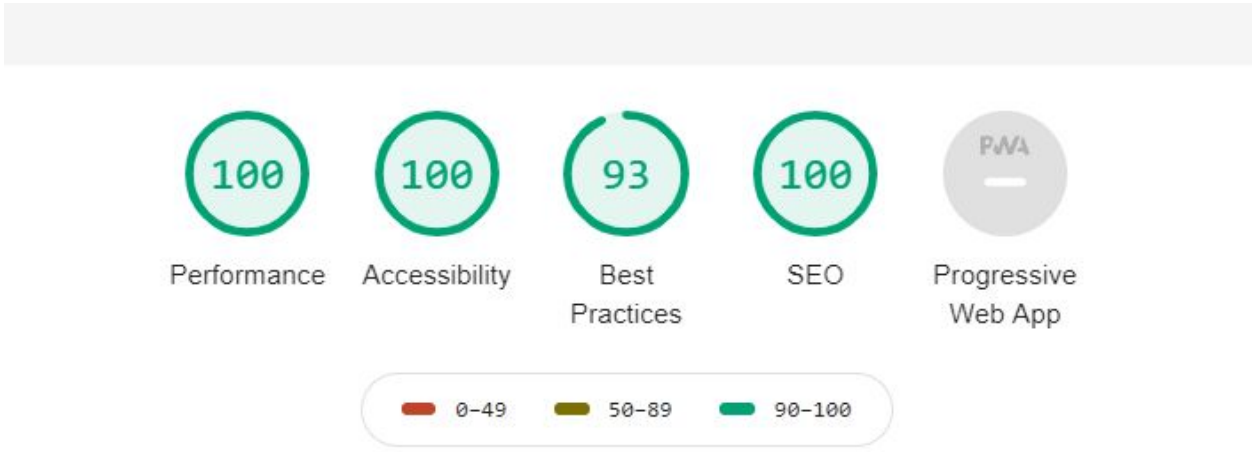
3.Ease of use.

4.Checking of contents.

5.Navigation and scroll checks.

6.Checking if all pages are responsive and can be viewed in all tablet and mobile phones.

Website testing was done with the help of google Lighthouse which gives results for Accessibility,Performance,Best Practices,SEO,etc.



7.Feedback and Change.:

Once the results from the testing are derived necessary changes are made and website is deployed.

8.Deployment and Maintenance:

1. Once the software testing phase gets over and no bugs or errors are reported then the implementation process starts.
2. The website was hosted in a local IIS Setup.