



STUDENT INFORMATION SYSTEM

A Project Report of Project - 1

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17SCSE104103

in partial fulfillment for the award of the degree of

BACHELORS IN COMPUTER APPLICATIONS

SCSE

Under the Supervision of

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May,2020



SCHOOL OF COMPUTING SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

Certified that this project report “ DEVELOPMENT OF INSTAGRAM WEBPAGE” is

the

bonafide work of “Lalit kumar sharma” who carried out the

project work under my supervision

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Chapter-1

Introduction

1.1 Brief Description of the system under study:

Any Instagram page has several individuals to keep record of. It is a basic necessity as it will be directly related to revenue for the page.

Big page have team of professionals to organize the page to gain more attention for their to but the small and medium page arrangements do not have facilities like these. They all depend on manual share the knowledge indivisualy which are hard to do.

1.2 About the proposed System

Aim

The aim of this website is to provide a reliable way to provide website for the user to acces freely and gain knowledge that help user to learn coding and provide information about the technology

To provide life long sustaining information for future use.

Objective

- Objective of this website is to provide a knowledge which is help user to be better at coding.
- for website manage efficiently and provide reliable over data.
- We focus to create a simple user interface for our targeted user group to understand easily and quickly to make use of it.

Analysis phase

During first phase, developers specify as many requirements as possible and prepare an SRS for the same. Developer now prioritize these requirements. Requirements are gathered deeply in this phase.

a

Design phase

In this phase, the overall design of the project is made using data flow diagrams, entity relationship diagrams and flow charts. Data flow diagrams depict the control , entity relationship diagrams depict about entities , attributes, relationship etc. Flow charts depicts flow of the process.

Our design is simple and easy to understand.

Code

This is the phase where all logical part of the project is done. It is also called business logic of the project. The logic like arithmetic calculation, implementation of algorithms, connectivity to database, etc is done. Coding is performed in HTML,CSS,PHP.

Testing

Testing is the major task to do to check whether the work done is successful or not.

Testing is conducted in 2 phases:

- Module testing
- Integration testing

Module testing

Module testing simply means before checking working of whole system, we have to check every module separately for any bugs or glitches thoroughly.

Integration testing

In this step, every individual unit is combined to form a full system and now it is tested for proper performance without any bug or glitch.

1.3 Software requirements

1 **Hypertext Markup Language (HTML)** is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages.

HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

2 **Cascading Style Sheet(css)** is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate *.css* file or in the same file using *<style> </style>* tags.

- 3 **PHP** is a server side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for *Hypertext Pre-processor*, that earlier stood for Personal Home Pages. A PHP file contains PHP tags and ends with the extension *".php"*.

- 4 **JAVASCRIPT** JavaScript often abbreviated as JS, is a high-level, interpreted scripting language that conforms to the ECMA Script specification. JavaScript has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions. Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web.[9] JavaScript enables interactive web pages and is an essential part of web applications. The vast majority of websites use it,[10] and major web browsers have a dedicated JavaScript engine to execute it. As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative (including object-oriented and

prototype-based) programming styles. It has APIs for working with text, arrays, dates, regular expressions, and the DOM, but the language itself does not include any I/O, such as networking, storage, or graphics facilities. It relies upon the host environment in which it is embedded to provide these features.

Hardware requirements

A normal working PC with all components .Basic components required are keyboard, mouse, and primary and secondary storage devices. Secondary devices like hard disk for storage of our workspace.

Software requirements

1. Visual Studio Code is a source-code editor developed by Microsoft for Windows, Linux and macOS. It includes embedded Git and support for debugging, syntax highlighting, intelligent code completion, snippets, and code refactoring.

- 2 Notepad++** Notepad++ is a free source code editor and Notepad replacement that supports several languages. Running in the Microsoft Windows environment. Based on the powerful editing component Scintilla, Notepad++ is written in C++ and uses pure Win32 API and STL which

ensures a higher execution speed and smaller program size. By optimizing as many routines as possible without losing user friendliness, Notepad++ is trying to reduce the world carbon dioxide emissions. When using less CPU power, the PC can throttle down and reduce power consumption, resulting in a greener environment.

- 1 **PHPmyadmin** phpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.
- 2 **3.Bootstrap~v4.0.0**:-Bootstrap is a free and open-source CSS frame work directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript based design templates for typography, forms, buttons, navigation and other interface components.

Chapter 2

System Requirements Specification

A software requirements specification (SRS) is a comprehensive description of the intended purpose and environment for software under development. The SRS fully describes what the software will do and how it will be expected to perform.

SRS minimizes the time and effort required by developers to achieve desired goals and also minimizes the development cost. A good SRS defines how an application will interact with system hardware, other programs and human users in a wide variety of real-world situations. Parameters such as operating speed, response time, availability, portability, maintainability, security and speed of recovery from adverse events are evaluated.

Methods of defining an SRS are described by the IEEE (Institute of Electrical and Electronics Engineers) specification 830-1998.

1.5 Introduction

The following subsections of Software Requirement Specifications Document should facilitate in providing the entire overview of the *student information system* under development. This document aims at defining the overall software requirements for the

1.6 Purpose

The main purpose of Software Requirement Specifications Document is to describe in a precise manner all the capabilities that will be provided by the Software Application “Proficiency Accumulation”. It also states the various constraints which the system will be abide to. This document further leads to clear vision of the software requirements, specifications and capabilities. These are to be exposed to the development, testing team and end users of the software.

1.7 Scope

Student information system will be a web based system .This system will help the user to keep records in a very efficient and reliable way. It will be used for maintaining the customer’s records of the institution in an organized manner. To provide better data management facilities.

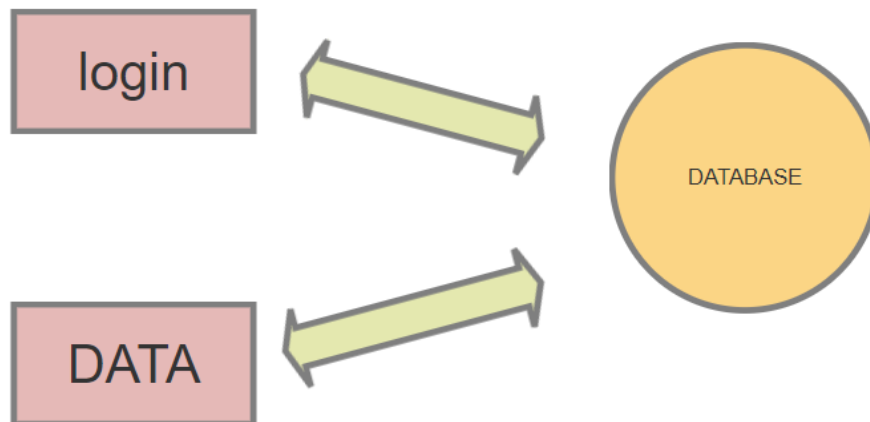
1.8 References

- www.w3schools.com
- Youtube tutorials
- www.guru99.com
- www.stackoverflow.com

- www.makeitweb.com

2 Overall description

2.1 Product perspective



2.2 System interfaces

The interface between two (or more) systems describes how the systems describes how the system “communicates” by allowing information to flow between them. The collection of all the inputs and outputs of a system defines its interfaces. These interfaces tells us how the software actually communicate with the system for the data.

2.3 User Interfaces

The software will have a user friendly and menu based interface. A welcoming home page will be there to choose between user or admin. A Login Screen for entering username and password will be provided. The role of users can be Administrator or user. A special key will be required to login to those pages. For example, if someone logins to our project the login screen will comprise of username and password.

3 Product functions

The system will allow access only to authorized users with specific roles (Administrator, Operator). Depending upon the users role, he/she will be able to access only specific modules of the system.

A summary of the major functions that the software will perform

- i) A Login facility for enabling only authorized access to the system.
- ii) Admin can add or retrieve the stored information

3.1 Assumptions and dependencies

There are only few assumptions determined by us i.e. user will have an active internet connection in their device.

Device will support scripts to load them easily without problems.

4 Specific Requirements

This section contains the software requirements to a level of detail sufficient to enable designers to design the system, and testers to test the system.

4.1 User Interfaces

- Front-end software: html, css , bootstrap
- Back-end software: sql ,django

5 System features

5.1 Modules

- Home
- Login(user)=>information
- Login(admin)=> add/delete user, update information.
- Contact us

5.2 Performance requirements

Performance requirements define how well the system performs certain functions under specific conditions. Examples are speed of response, throughput, execution time and storage capacity. The service levels comprising performance requirements are often based on supporting end-

user tasks. Like most quality attributes, performance requirements are key elements when designing and testing the product.

- **Safety**

Information transmission should be securely transmitted to server without any changes in information. We have password authentication which makes our application more secure.

- **Reliability**

As the system provide the right tools for discussion, problem solving it must be made sure that the system is reliable in its operations and for securing the sensitive details. As our application has security feature of password authentication.

- **Usability**

As the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly and transverses quickly between its states. Our application is very easy to use. Customer can use this without doing any type training.

5.3 Software system attributes

- **Reliability**

This application is a reliable product that produces fast and verified output of all its processes.

- **Availability**

This application will be available to all users to help them to carry out their operations conveniently.

- **Security**

The application will be password protected. User will have to enter correct username, password and role in order to book labour.

- **Maintainability**

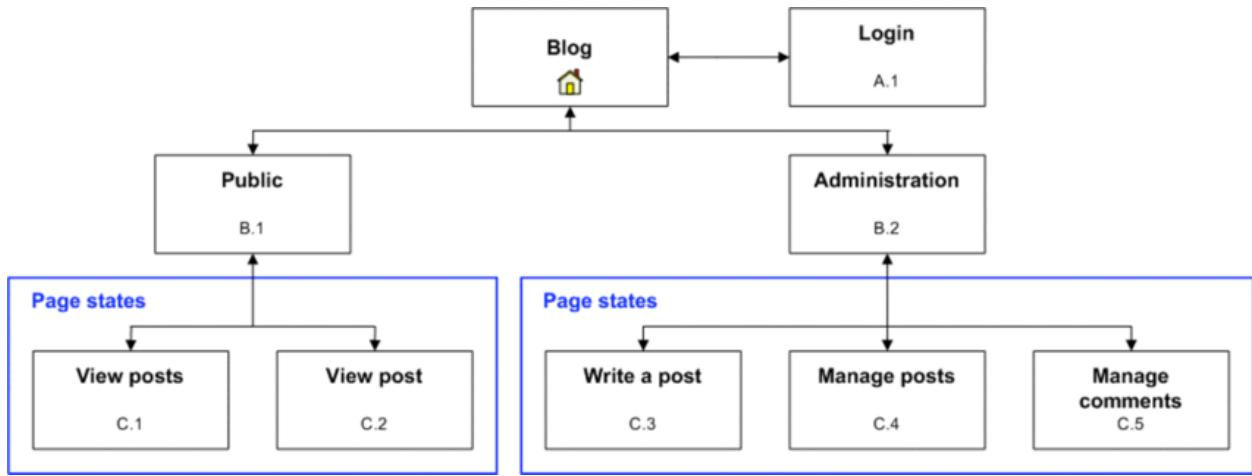
The application will be designed in a maintainable manner. It will be easy to incorporate new requirements in the individual modules.

- **Portability**

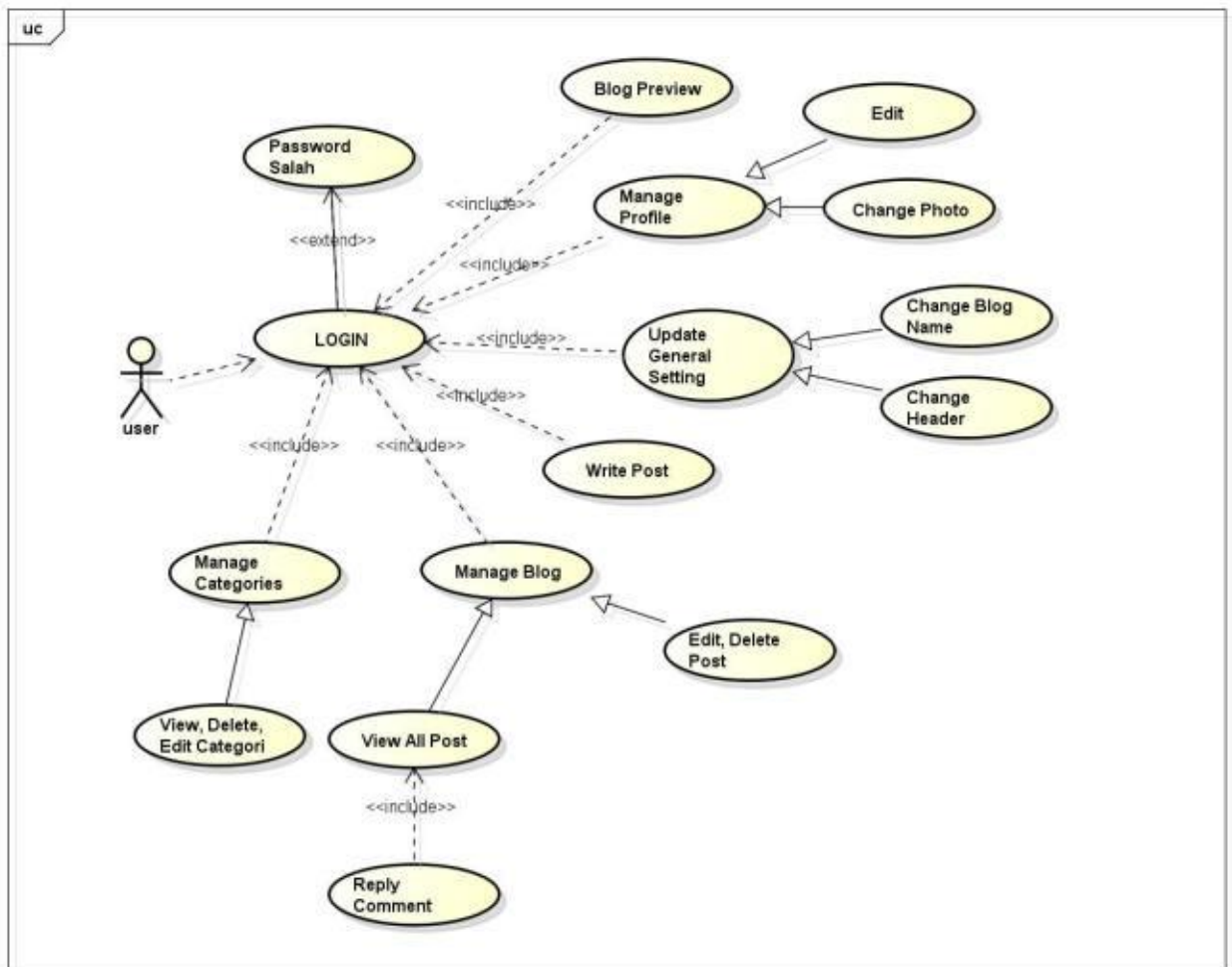
The application will be easily portable on any windows-based system that supports html,css, bootstrap and php.

3 Design of the system

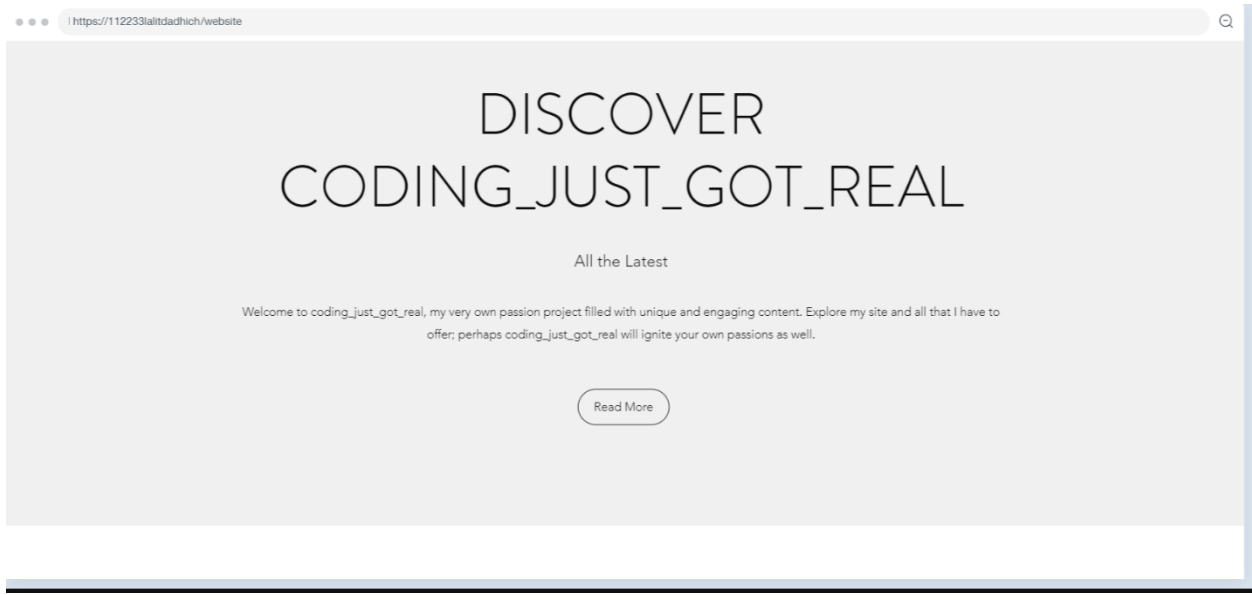
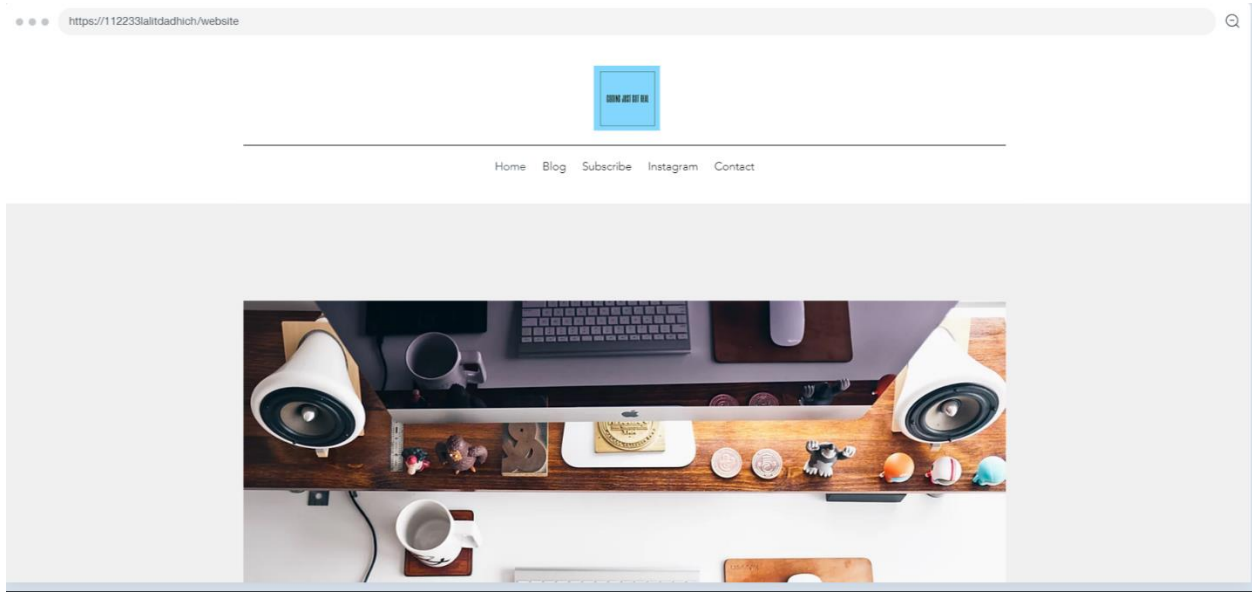
1.1 Data flow diagrams



1.2 Use Case diagram



Snapshots



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3. Try out some online courses.
4. Focus on learning computational thinking.
5. Get a book.
6. Check out some interactive tutorials or coding games.
7. Try a kid's toy.
8. Teach your favorite devices (and assistants) new tricks

#coding #c #python

1.5 Limitations and Scope of Improvement and Conclusions

1.5.1 Limitations and Scope of Improvement:

Initially we are working with only client side but in future we will make server side which makes interaction more attractive, here the transaction is done directly between the user and database but in future we will play a role of mediator ,the further transactions will go through us. We will add the feature of online transactions like fees through credit cards, debit cards, e-wallets etc.

1.5.2 Conclusions:

In this study, the website presents the better way to keep records updated with less paper work. Record management efficiency is improved especially in a modern time where people don't have time to maintain records manually. Moreover,with the help of the website, the admin will get to know how much of his efforts are being enjoyed by users.