Career Guidance

S. R. S. Report – I

Group No.-82

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Career Guidance

1. Introduction

Our project name is Career Guidance .We are creating a website which will show near-by Schools location-wise. Our project will consist of 3 modules. The first module will ask for the current location and will search the schools. The second module will be registration module, in this module different schools can register on our website. The third module will have admin login, in this module admin will permit the schools who have registered. We will add some more features like our website provide valuable feedback of students, faculty members and rating based on facilities.

1.1 Purpose

Our project career guidance helps students and their parents to choose one of the best schools in Their vicinity. Which will be definitely going to save money , time and energy .Student and their parent can be search over our website according there requirements . Website will show different result rating wise.

1.2 Scope

Developing system on a topic like "Career guidance" has much scope. It is an automated computerized system that will provide career opportunities and counseling to all types of students. It will be proved effective and efficient in reducing the problems and errors that are faced in the manual system.

It will be a web based online career guidance system, an online website in which the students can get information about career according to their academics. They will register themselves and according to their profile, the updates will be sent to them through email/message.

1.3 Definitions, Acronyms, and Abbreviations

SRS: System Requirement Specification

WWW: World Wide Web

CRW: Career Guidance Website

Admin: Administrator

MySQL:is a RDBMS based on SQL which is used for adding removing and modifying

Information in the database.

HTML: Hypertext Markup Language
CSS: Cascading Style Sheet

HTTP: Hypertext Transfer Protocol

OS: Operating System

1.4 References

- http://diveintopython.org
- http://python.org
- http://djangoproject.com
- https://www.youtube.com
- https://www.wikipedia.org/
- http://www.w3school.com
- https://stackoverflow.com/
- https://quora.com/

1.5 Overview

Our project career guidance helps students and their parents to choose one of the best school in their vicinity. We are creating a website which will show nearby schools location-wise. Our project will consist of 3 modules. The first module will ask for the current location and will search the schools. The second module will be registration module, in this module different schools can register on our website. The third module will have admin login, in this module admin will permit the schools who have registered. In this we are using python for back end and HTML, CSS and Bootstrap for front end.

2. General Description

2.1Product Functions

Online Career Guidance Management System this website is used to maintain and manage

the information of the schools .This software help the students to easy access the information of school's .This website is also helpful for the administrator because he can easily bring changesto the records of the schools.

2.2 User Characteristics

The users of the system are students, teachers and the administrators who maintain the system.The users are assumed to have basic knowledge of the computers and Internet browsing. Theadministrators of the system to have more knowledge of the internals of the system and is able torectify the small problems that may arise due to disk crashes, power failures and other catastrophes to maintain the system. The proper user interface, user's manual, online help and theguide to install and maintain the system must be sufficient to educate the users on how to use thesystem without any problems

2.3 General Constraints

The information of all the users must be stored in a database that is accessible by the OnlineCareer Guidance Management System.The school information security system must be compatible with the Internet applications.The Online Career GuidanceManagement System is connected to the school computer and is running all 24 hours a day.The users must have their correct usernames and passwords to enter into theOnlineStudent Information Management

2.4 Assumptions and Dependencies

The users have sufficient knowledge of computers.The school computer should have Internet connection and Internet server capabilities.The users know the English language, as the user interface will be provided in English. The product can access the university student database

3. Specific Requirements

This section provides a detailed description of the problem that the software must solve.Information content flow and structure is documented.

3.1 External Interface Requirements

This section provides a detailed description of all inputs and output from the system. It also gives a description of the hardware and ,software and communication interface and provide basic prototype of the user interface

3.1.1 User Interfaces

All pages of the system are following a consistent theme and clear structure. The occurrence of errors should be minimized through the use of checkboxes, radio buttons and scroll down inorder to reduce the amount of text input from user. JavaScript implement in HTML in order to provide a Data Check before submission. HTML Tables to display information to give a

clear structure that easy to understand by user. Error message should be located beside the error inputwhich clearly highlight and tell user how to solve it. If system error, it should provide the contactmethods. The page should display the project process in different color to clearly reflect thevarious states that student done. Each level of user will have its own interface and privilege tomanage and modify the project information such as supervisor able to monitor/manage his student progress and make comment on it, student can change his detail, view the progress, submitproject idea. The System should provide a feedback form for all users to give comments or asking questions. It should provide a FAQ to minimize the workload of system administrator

3.1.2 Hardware Interfaces

1.4GB s
Pace required for a typical live system with 1000-2000 events.
2. Recommended minimum CPU – Pentium 4, 3.2GHz

Server Side
The web application will be hosted on one of the departments' window servers and connecting toone of the school Oracle Database server. The web server is listening on the web standard port, port 80.
Client Side
The system is a web based application; clients are requiring using a modern web browser such asMozilla Firebox 1.5, Internet Explorer 6 and Enable Cookies. The computer must have anInternet connection in order to be able to access the system

3.1.3 Software Interfaces

Server Side
We will write our server-side scripts in Python as we can reuse most of our knowledge from writing Python programs on the desktop and in this we use the django. We will also make use of MySQL to store information.
Client Side
An OS is capable of running a modern web browser which supports HTML version 3.2 or higher.

3.1.4 Communications Interfaces

The HTTP protocol will be used to facilitate communications between the client and server.

3.2 Functional Requirements

Its deals with the functionality required from the system which are as follows:

- The website will help the school to register themselves.
- Only authorized person can access related details

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- Parents can search according to their vicinity.
- Schools can change their information regarding themselves.
- Administrator will be responsible for updating site.

3.2.1 <Functional Requirement or Feature >

User/Parent:
User/Parents search for schools for their wards, can compare different and choose school by their requirements.

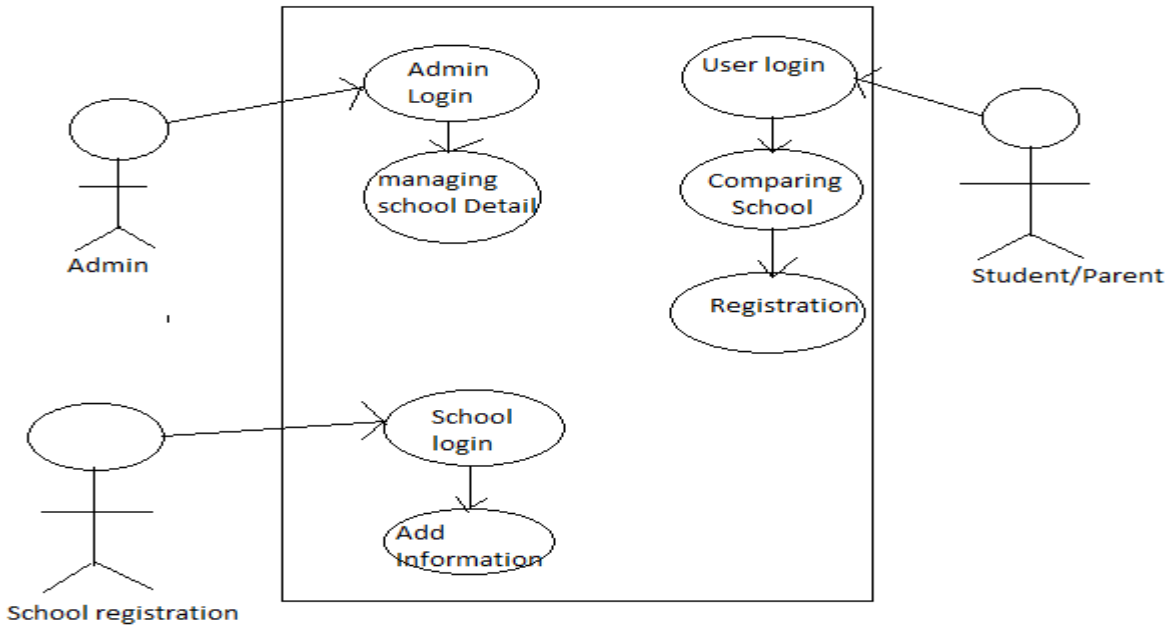
Schools Registration:
Schools can register themselves on our website and add their details .Schools can update and delete their details. They can also add their schools details on our website.

Admin:
Admin can update, delete schools records. If admin did not any school to register then admin can decline their registration on website. Allover admin going to play big roll to manage website and keep update.

3.3 Use Cases

3.3.1 Use Case Diagram

In this use case diagram there are three module Admin, Parents/Student and School's User. Admin can manage the career guidance website. They can add the school on our website. School registration can register the school on our website with their school detail. Students/Parents can search the college, compare the schools and register the school.



3.4 Non-Functional Requirements

Basically, Non-functional requirements describe how the system works, while functional requirements describe what the system should do.
This does not mean the latter are more important, but most requirement gathering techniques focus on functional requirements, so large gaps in non-functional requirements are **common**.

3.4.1 Performance

This subsection specifies numerical requirements placed on the human interaction with the software, as a whole .numerical requirements will include:

- Terminals will be supported at a time.
- Only text information will be supported.

3.4.2 Reliability

Its means the extent to which program with required precision. The website developed should be extremely reliable and score so that information about any questions etc., is not leaked. The system shall not be down more than 2 times in a year.

3.4.3 Availability

The software will be available only to authorized users like parent can see different schools, admin to add an update/delete school details. Checking that the system always has something to function and always pop up error message in case of component failure. in that case the error message appear when something goes wrong so to prevail availability problems.

3.4.4 Security

The security requirements deals with the primarily security. The software should be handled only by the administrator and authorized users. Only the administrator has right to assign permission like creating accounts, generating password and manage the register schools.

Specific requirement in this area

Could include the need to:

- Utilize certain cryptographic techniques.
- Keep specific log or history data sets.
- Assign certain function to different modules.
- Restrict communications between some areas of the program.
- Check data integrity for critical variable.

3.4.5 Maintainability

The application is to be designed so that it is easily maintained. Also it should allow incorporating new requirements in any module of the system. Backups for database are available

3.4.6 Portability

The software is a web based application and is built in HTML, Python and MySQL. So it is platform independent and is independent OS. The application will be easily portable on any window based system.

3.5 Logical Database Requirements

In our project we are using MySQL database. In our project we are using python. Python can be used in database applications. One of the most popular databases is MySQL.

MySQL-MySQL has a slightly easier initial learning curve than PostgreSQL. However, PostgreSQL's design is often preferred by Python web developers, especially when data migrations are run as an application evolves. MySQL is an implementation of the relational database concept.

Accessing MySQL from a Python application requires a database driver (also called a "connector"). While it is possible to write a driver as part of your application, in practice most developers use an existing open source driver.

To be able experiment with the code examples in this tutorial, we should have MySQL installed on your computer. we can download a free MySQL database at https://www.mysql.com/downloads/.

List of Schools

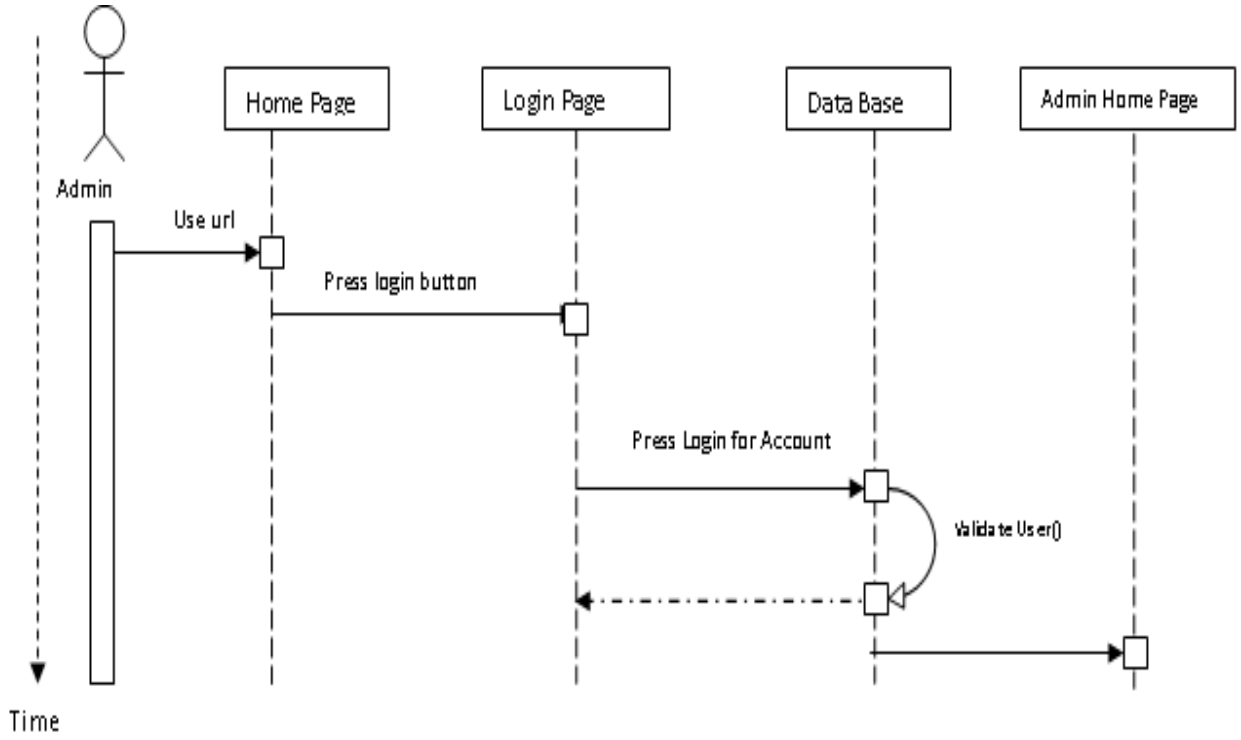
Column Name	Data Type	Key Constraints
School_id	int	Primary key not null
School_name	char	Not null
School_location	char	Not null
School_fees	double	Not null
School_start year	Date	Not null

4. Analysis Models

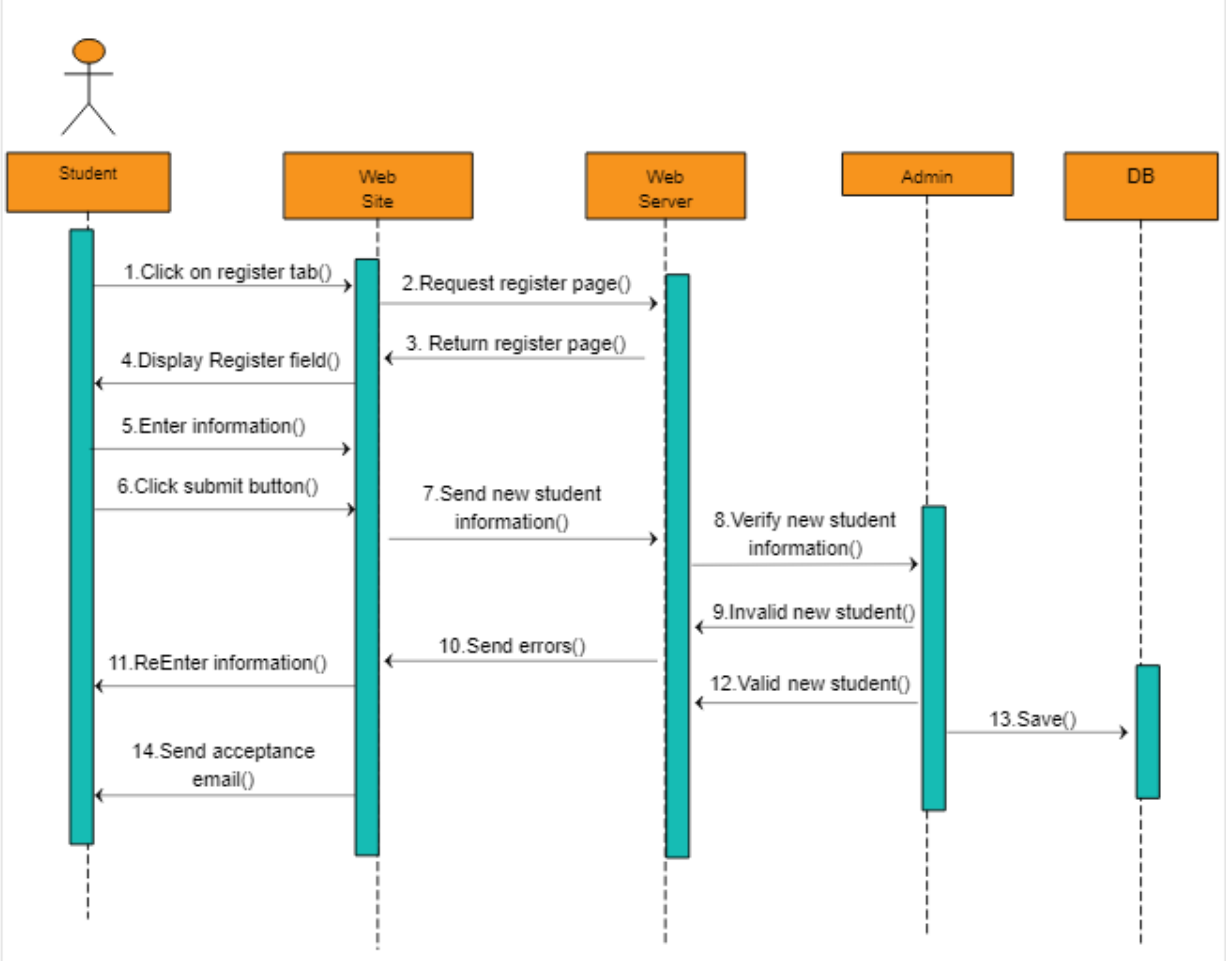
List all analysis models used in developing specific requirements previously given in this SRS. Each model should include an introduction and a narrative description. Furthermore, each model should be traceable the SRS's requirements.

4.1 Sequence Diagrams

Sequence Diagram for Admin:-

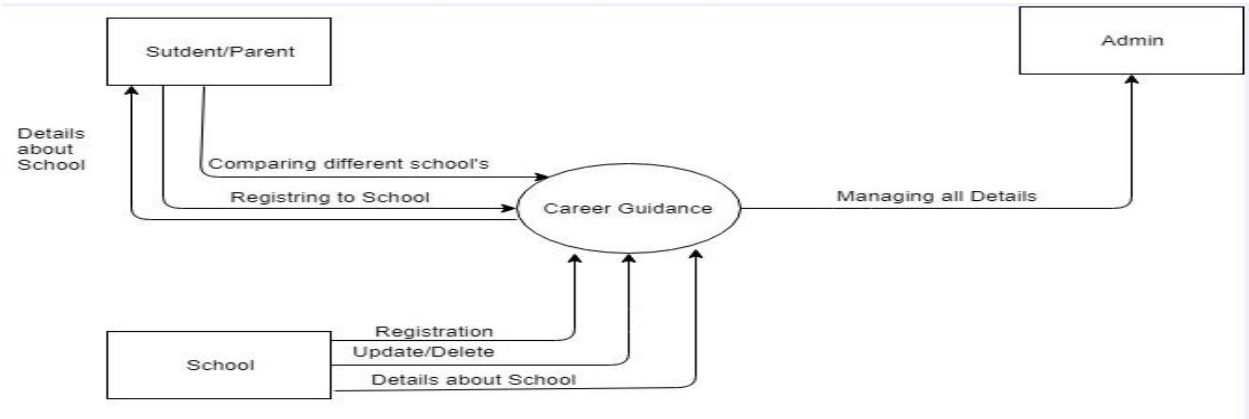


Sequence Diagram for Student:-

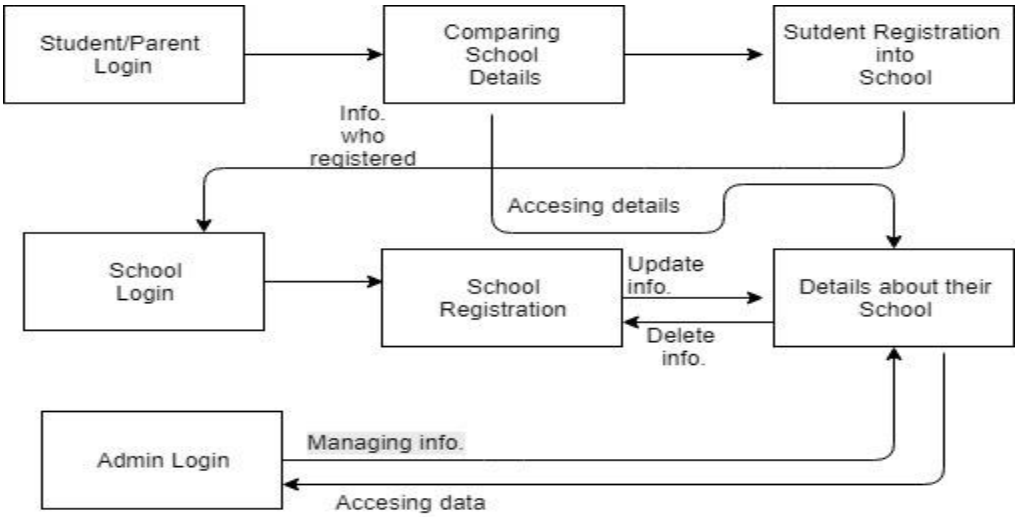


4.2 Data Flow Diagrams (DFD)

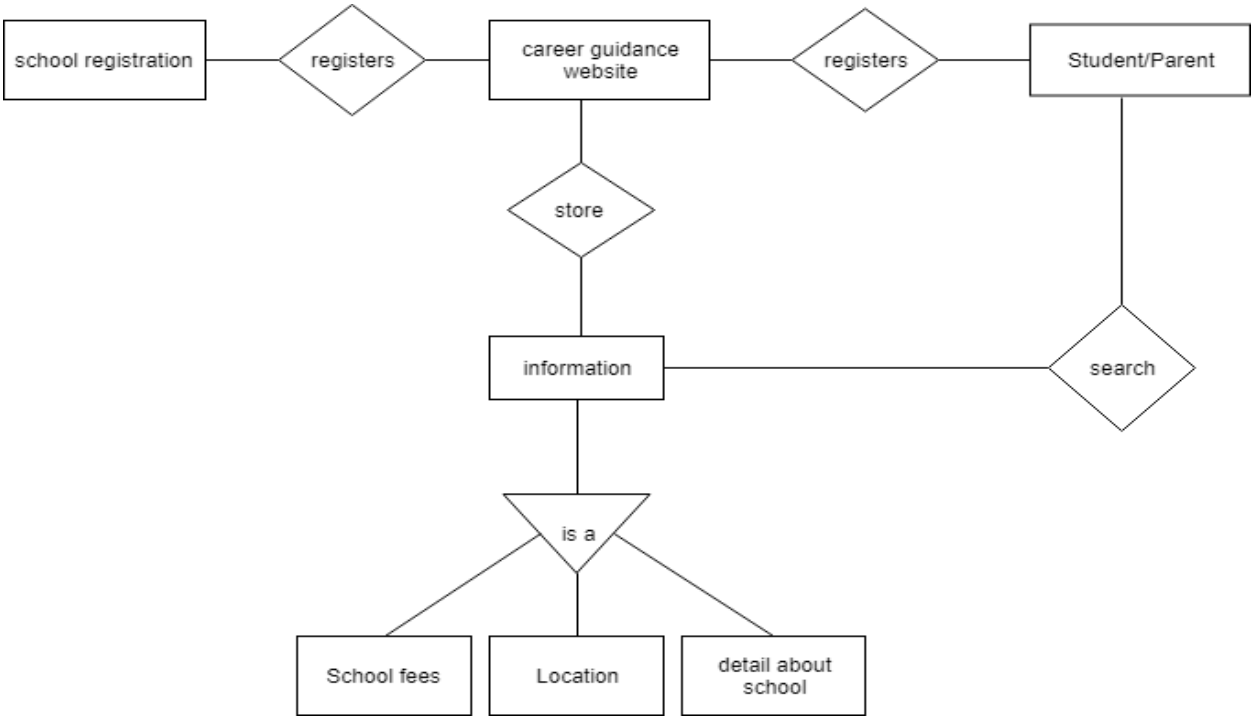
Zero level DFD:-



One level DFD:-

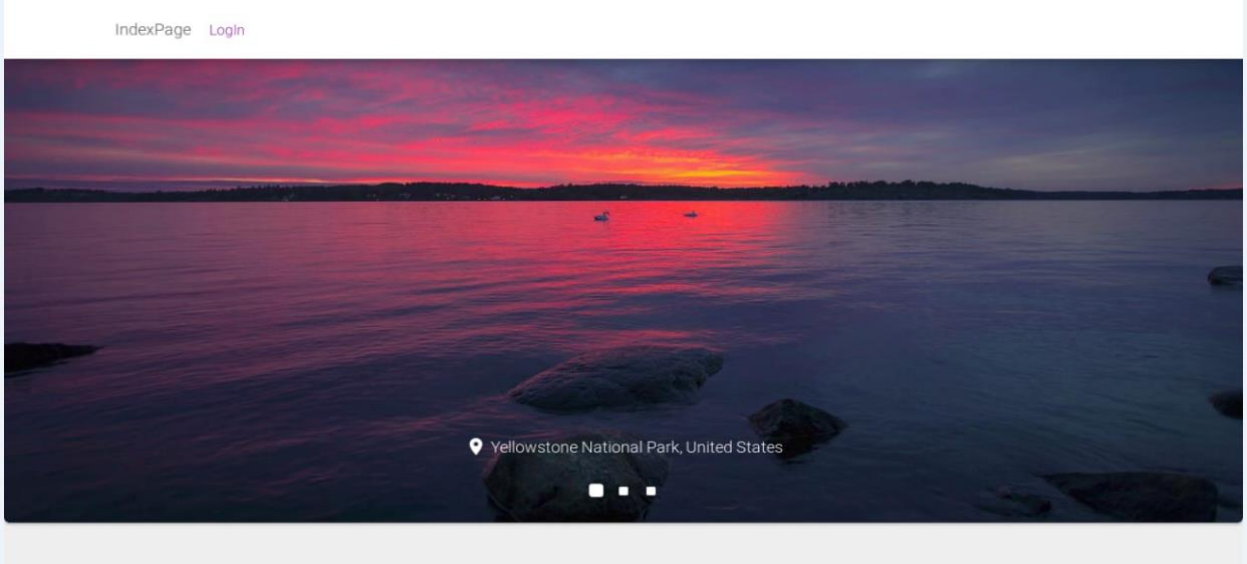


4.3 Entity Relationship Diagrams (ERD)

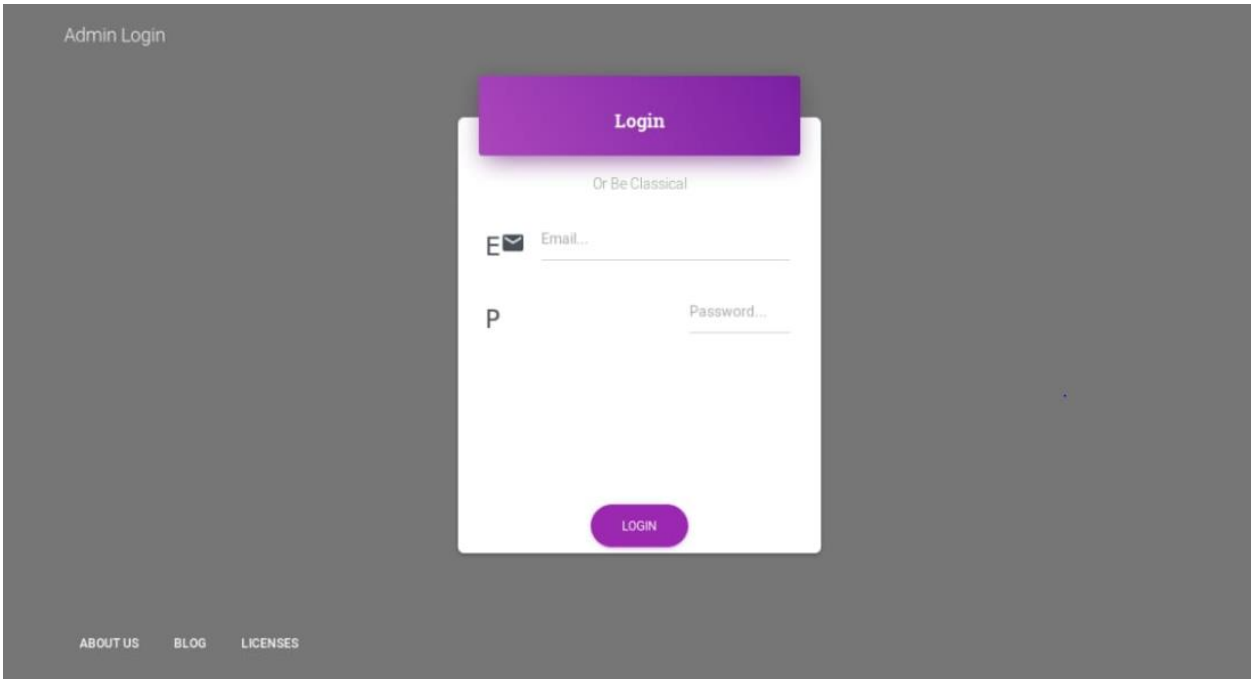


5. Designing Forms

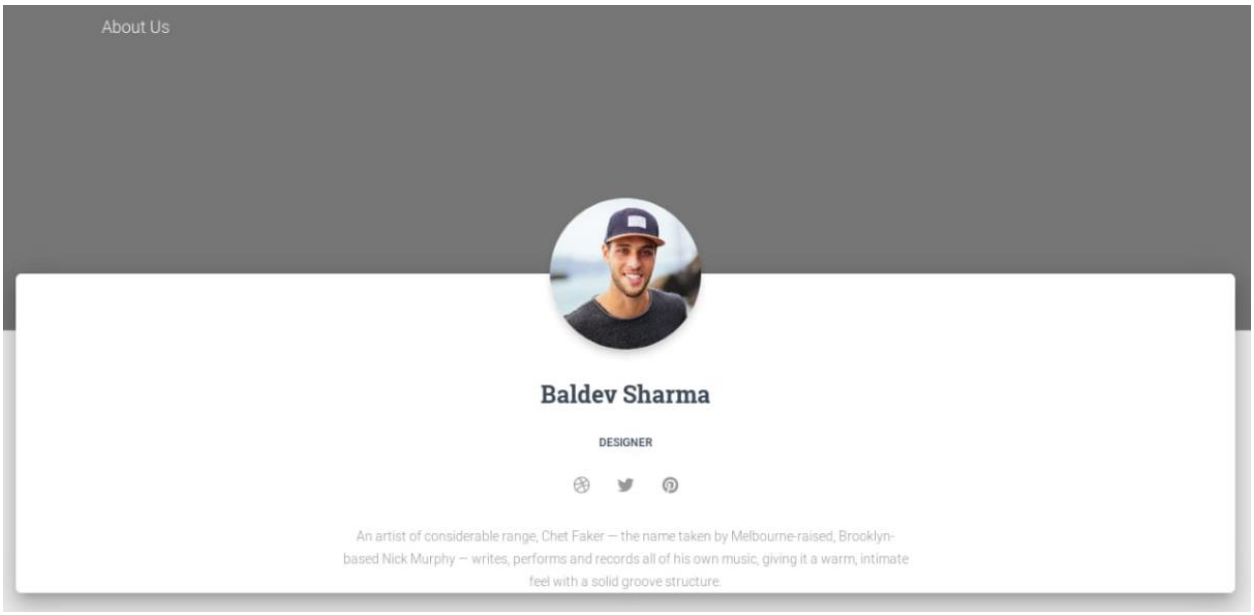
Home Page



Admin Login Page



About Us Page



6. Future Plans

In future we will add more features like students can register online for particular school and we provide school results year wise which will definitely help parents. School will show to the students on the bases of their Rating.

7. CONCLUSION

This SRS document is used to give details regarding our project name Career Guidance. In this all thefunctional and non-functional requirements are specified in order to get a clear idea to develop a project. This project is only for student career. The main conclusion of this project is That student and their parent easily search the school easily and provide good education for their children's and new schools can register on our website.