

SDP PROJECT REPORT FOR WEB DEVELOPMENT WITH DJANGO

PROJECT NAME: Reva University website

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WHAT IS DJANGO AND WHAT ARE ITS ADVANTAGES?

Django is an open-source python web framework used for rapid development, pragmatic, maintainable, clean design, and secure websites. A web application framework is a toolkit of all components needed for application development. The main goal of the Django framework is to allow developers to focus on components of the application that are new instead of spending time on already developed components. Django is fully featured than many other frameworks on the market. It takes care of a lot of hassles involved in web development; enables users to focus on developing components needed for their application.

ADVANTAGES:

\Box It is easy to use and implement and programmers benefit from it since it saves a lot of development time
☐ Django also supports asynchronous views.py function calls, so responsive web apps and mobile backbends are well supported.
☐ Django allows programmers to create large and extensive web applications and REST APIs with the least amount of effort
□ Django provides the programmer with 2 excellent classes to handle HTTP(S) protocol – HttpRequest and HttpResponse. The views.py functions take an HttpRequest object as a parameter to the function and it returns an instance of the HttpResponse class. The APIs provided by these above mentioned classes are so well designed that one can manipulate every aspect of the request and response objects.
☐ Modification of one component doesn't affect any other component.

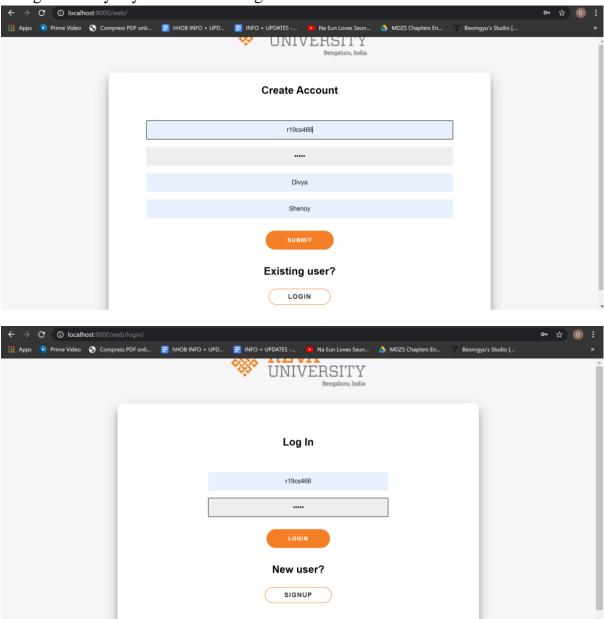
WHY WE CHOSE REVA UNIVERSITY WEBSITE AS OUR PROJECT TOPIC?

In the five days of sdp conducted for web development using django framework we learnt that there are three parts to web development, frontend, middleware and backend.

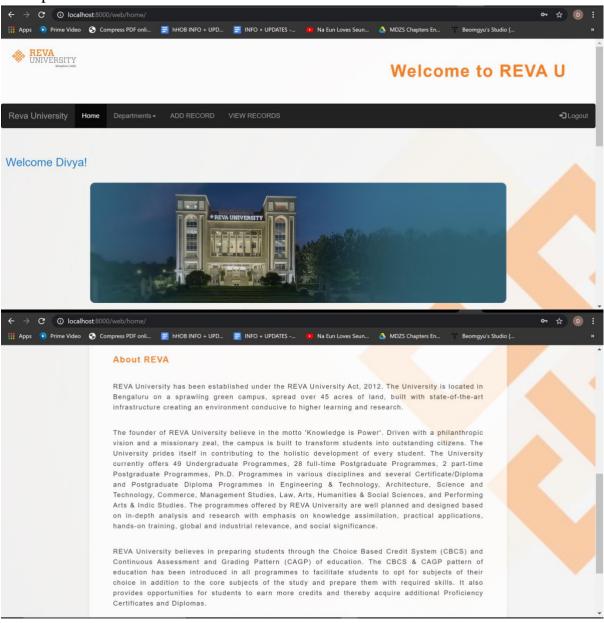
In order to integrate these concepts into one common idea within the given amount of time we decided that creating a university website would be the best option.

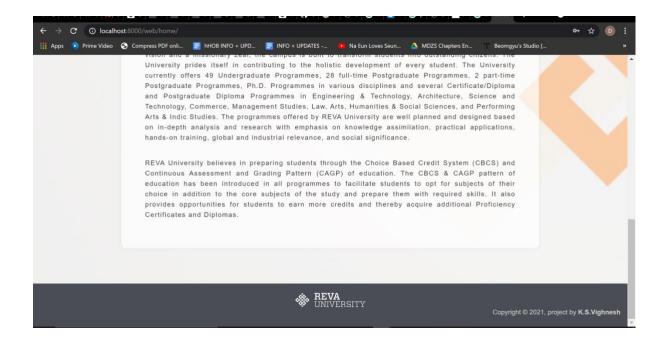
HOW WE PLANNED AND EXECUTED OUR PROJECT.

First we decided to make the login page which would have the option to either register or login directly if you are an existing user. The screenshots are shown below.

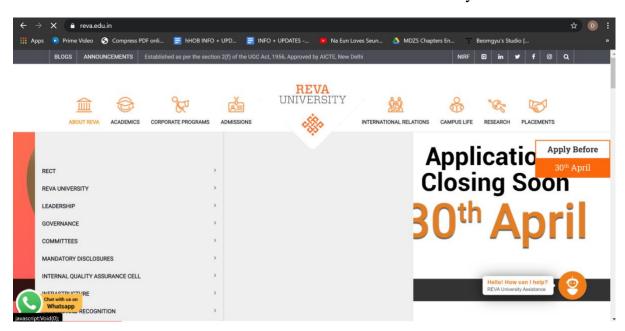


We then moved on to our home page designed that had all the necessary information needed such as the link to the official Reva University website, Departments of Reva and the add record and view record option to demonstrate the working of backend concept.

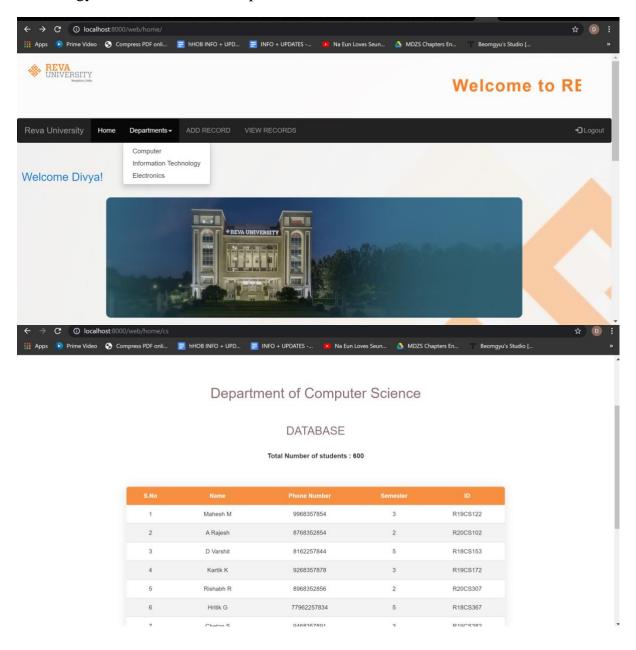


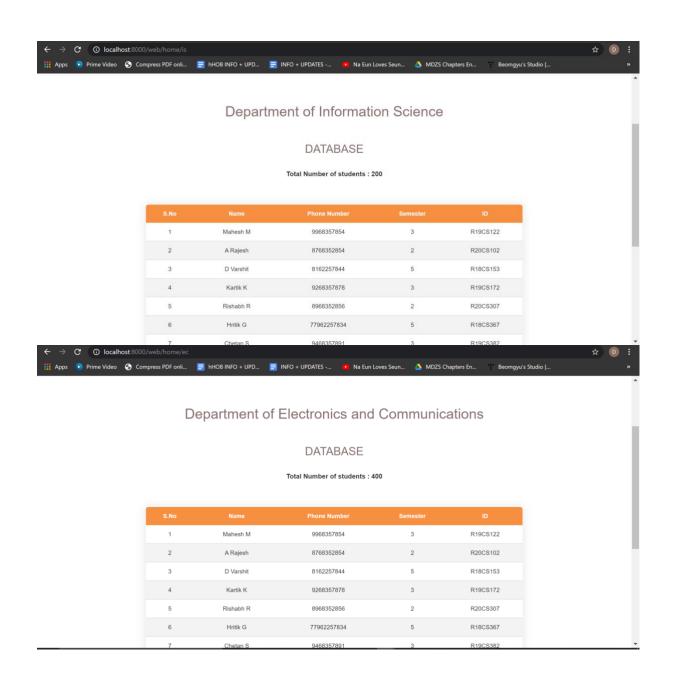


Below are the screenshots of the link to the official reva university website.

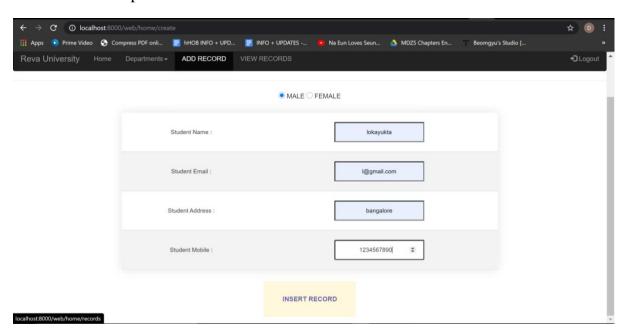


Under the departments of reva we have included three, the computer, information technology and the electronics departments. The screenshots are as follows.

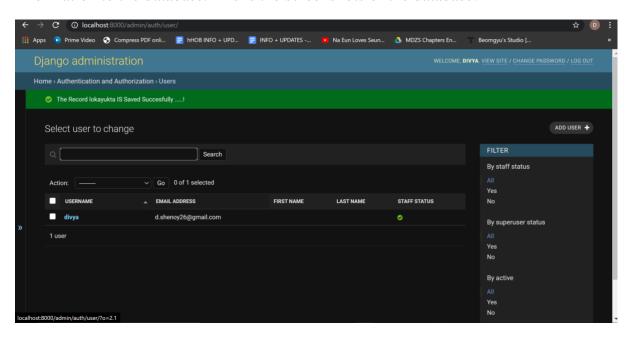




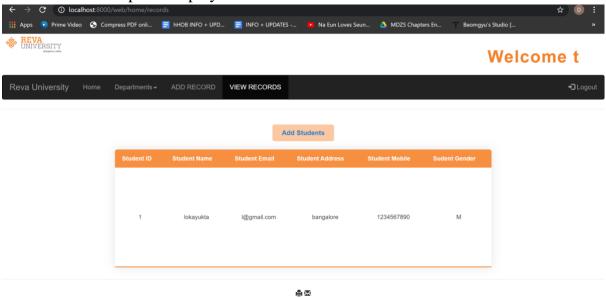
The add record option takes us to as shown below.



Here we demonstrate the working of the backend. The insert record button adds the information to the database. This is the screenshots of the database.



The view record option display the data from the database.



With this we have managed to show all the concepts we learnt in sdp.

