VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA" BELAGAVI-590018

A Web Technology Application

Mini-Project Report

On

"NASA MANAGEMENT SYSTEM"

A Mini-project report submitted in partial fulfilment of the requirements for the award of the degree of ***Bachelor of Engineering in Computer Science and Engineering*** *of Visvesvaraya Technological University, Belagavi.*

Submitted by:

KIRAN GOWDA .S (1DT17CS406)

Under the Guidance of:

Mrs. Keerthi Mohan
(Asst. Prof. Dept of CSE)

Department of Computer Science and Engineering
(Accredited by NBA, New Delhi for 3 Years Validity:26-07-2018 to 30-06-2021)
DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
Kanakpura Road,Udayapura, Bangalore

2019-2020

DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT,

Kanakpura Road,Udayapura, Bangalore

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Accredited by NBA, New Delhi for 3 Years Validity:26-07-2018 to 30-06-2021)

CERTIFICATE

This is to certify that the Mini-Project on Web Technology Application entitled **"NASA MANAGEMENT SYSTEM"** has been successfully carried out by **KIRAN GOWDA .S (1DT17CS406)** bonafide student of **Dayananda Sagar Academy of Technology and Management** in partial fulfilment of the requirements for the award of degree in **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belagavi** during academic year 2019-2020. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of project work for the said degree.

Signature of Guide:

Mrs. KEERTHI MOHAN
(Assistant Professor)
Dept. of CSE, DSATM

Dr. C. NANDINI
(Vice Principal and HOD)
Dept. of CSE, DSATM

Examiners: **Signature with Date**

1:

2:

ACKNOWLEDGEMENT

It gives me immense pleasure to present before you our project titled **'NASA MANAGEMENT SYSTEM'.** The joy and satisfaction that accompany the successful completion of any task would be incomplete without the mention of those who made it possible. I am glad to express my gratitude towards our prestigious institution **DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT** for providing us with utmost knowledge, encouragement and the maximum facilities in undertaking this project.

I wish to express a sincere thanks to our respected principal **Dr. B. R. Lakshmikantha** for all their support.

I express my deepest gratitude and special thanks to **Dr. C. Nandini, Vice Principal, Prof & H.O.D, Dept. Of Computer Science Engineering**, for all her guidance and encouragement.

I sincerely acknowledge the guidance and constant encouragement of our mini-project guide, **Assistant Prof. Keerthi Mohan**

KIRAN GOWDA .S
(1DT17CS406)

ABSTRACT

This is an online application to store information about the NASA (National Aeronautics and Space Administration). Where an Admin can maintain the information about the Scientists and which department they belongs to. It also keep track of Missions which are launched by NASA and also people who are going to visit the NASA. This application helps the Administrator to add new Scientists , Missions and Department. This Application also gives clear view of the Scientists who are currently working in NASA and which department they are working for, And also it will store the information about the missions. A new visitor can register and login, which helps Admin to know the people who are visiting and for what purpose they are visiting the NASA.

TABLE OF CONTENTS

LIST OF FIGURES

CHAPTER 1

INTRODUCTION

1.1 Background

Considering the volumes of data that needs to be tracked in Nasa, it would be very difficult to manage the accuracy and quality of data manually. It would be almost impossible to get the details required in case of manual maintenance of data. The Nasa Management System simplifies the manual work and allows smooth administration of the operations of an Nasa.

1.2 Problem Definition

This project is aimed to reduce the manual work involved in data maintenance in an Nasa and automates the Nasa Management System. This project is developed mainly to simplify the manual work and allows smooth administration of the operations of an Nasa. The purpose of the project is to computerize the administrative operations of an Nasa and to develop software which is user friendly, simple, fast, and cost – effective. It deals with the collection of Scientists, Missions, Departments, Visitors etc. Traditionally, it was done manually. The main function of the system is to enter and store Admins, Missions, Departments and Visitors information and retrieve these details as and when required and also to manipulate these details meaningfully.

1.3 Motivation

Manual System: The system is very time consuming and lazy. This system is more prone to errors and sometimes the approaches to various problems are unstructured.

Technical System: With the invent of latest technology, we should update our systems which are very fast, accurate, user-friendly and reliable.

1.4 Objective

Main goal of this project is to simplify the manual operation of an Nasa with the following advantages:

1. Faster System
2. Accuracy

3. Reliability
4. Cost Effective
5. User Friendly
6. Immediate access to the data and statistics

1.5 Scope of the project

The project provides a very simple application which simplifies the manual work done by the operations team of an Nasa. This application saves the data of Scientist, Missions, Departments and Visitors in the database. Allows admin to enter the details, update / delete the existing details. Our project allows visitors and scientists to view the data stored in the database and to see the statistics.

CHAPTER 2

REQUIREMENTS

The requirements can be broken down into 2 major categories namely hardware and software requirements. The former specifies the minimal hardware facilities expected in a system in which the project has to be run. The latter specifies the essential software needed to build and run the project.

2.1 Hardware Requirements

- Processor : Intel 486/Pentium processor
- Processor Speed : 500 MHz or above
- Hard Disk : at least 60 GB
- RAM : at least 1 GB

2.2 Software Requirements

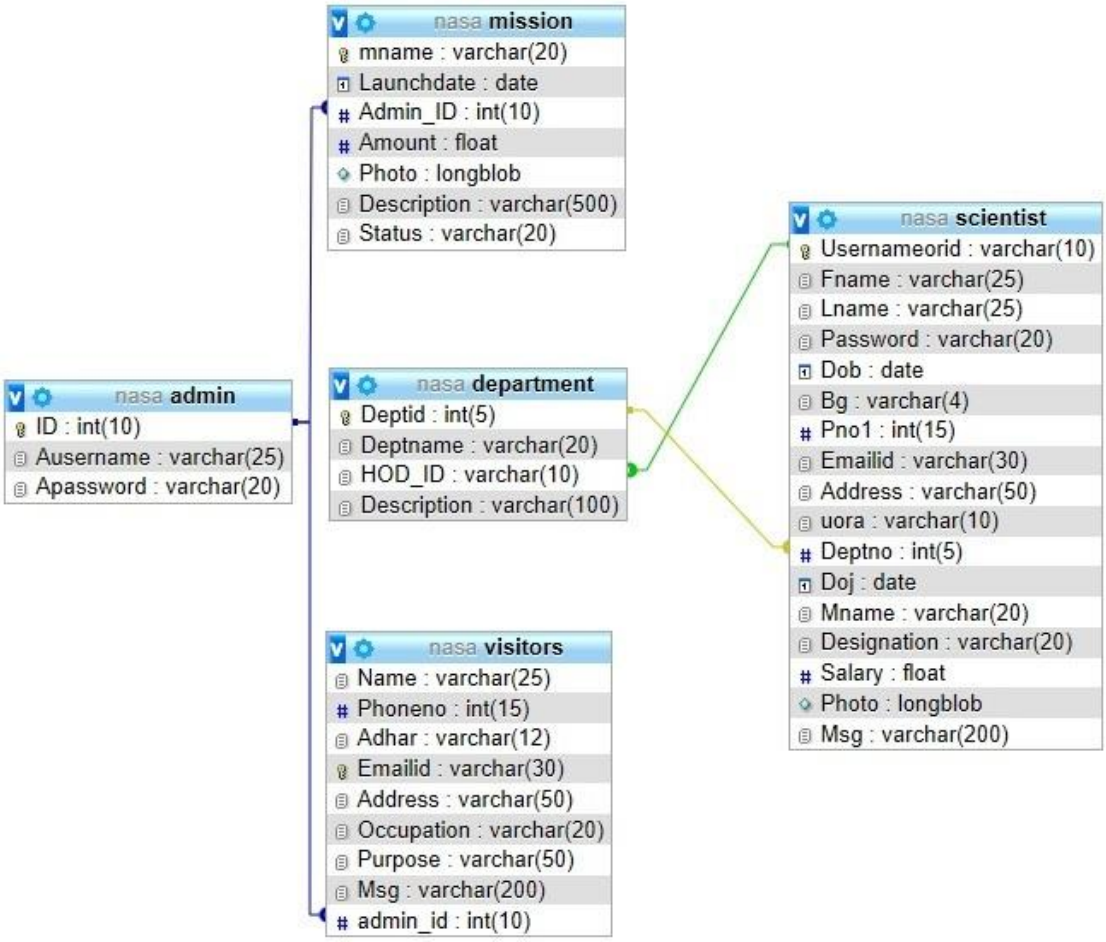
- Technology Implemented : Apache Server
- Language Used : PHP
- Database : My SQL
- User Interface Design : HTML, CSS
- Web Browser : Google Chrome
- Software : XAMPP Version: 7.1.32

CHAPTER 3

IMPLEMENTATION

3.1 Class Diagram:

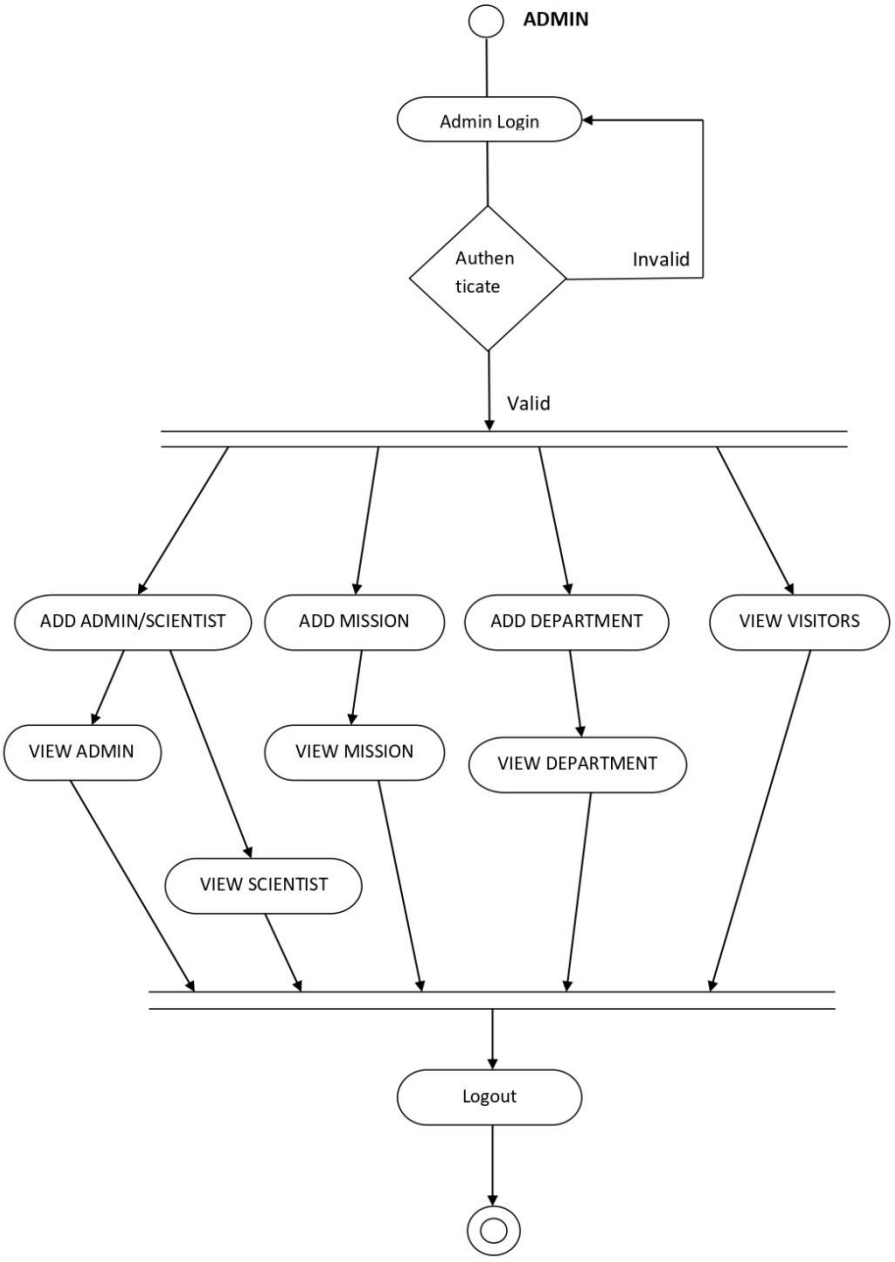
A class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.



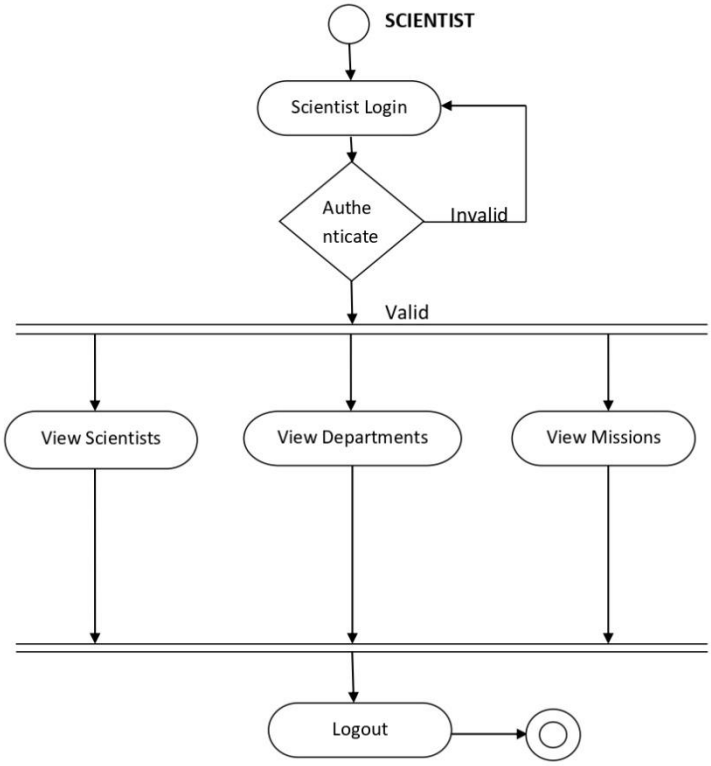
3.2 Activity Diagram:

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams are intended to model both computational and organizational processes (i.e., workflows), as well as the data flows intersecting with the related activities. Although activity diagrams primarily show the overall flow of control, they can also include elements showing the flow of data between activities through one or more data stores.

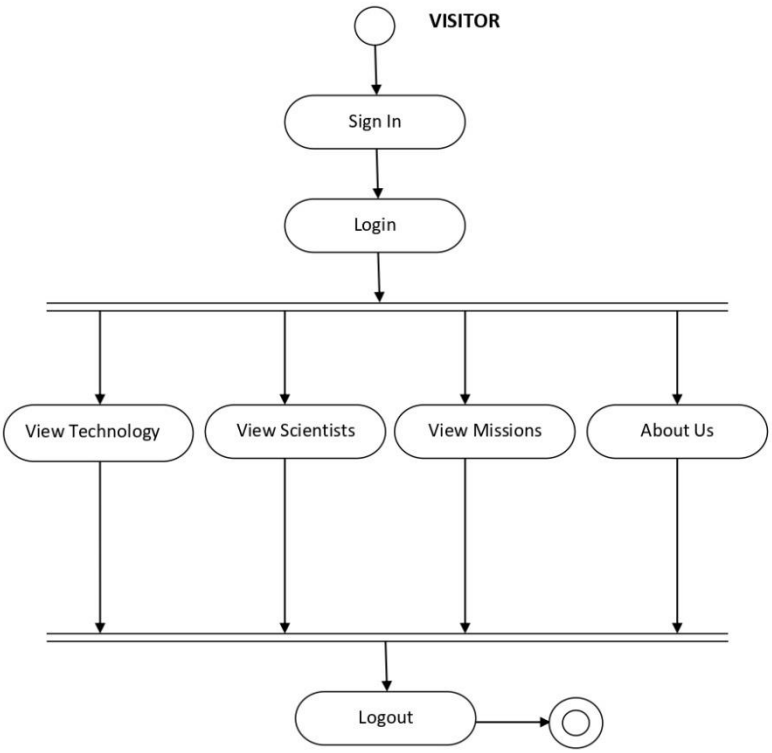
3.2.1 Activity for Admin:



3.2.2 Activity for Scientist:



3.2.3 Activity for Visitor:



CHAPTER 4

CONCLUSION AND FUTURE WORK

The Nasa Management System is a great improvement over the manual system which uses lots of manual work and paper. The computerization of the system speeds up the process. This system was thoroughly checked and tested with dummy data and found to be very reliable.

4.1 Advantages:

- The Nasa Management System is fast, efficient and reliable.
- Avoids data redundancy and inconsistency
- Web-based
- Number of personnel required is considerably less
- Provides more security and integrity to data

4.2 Future Enhancements:

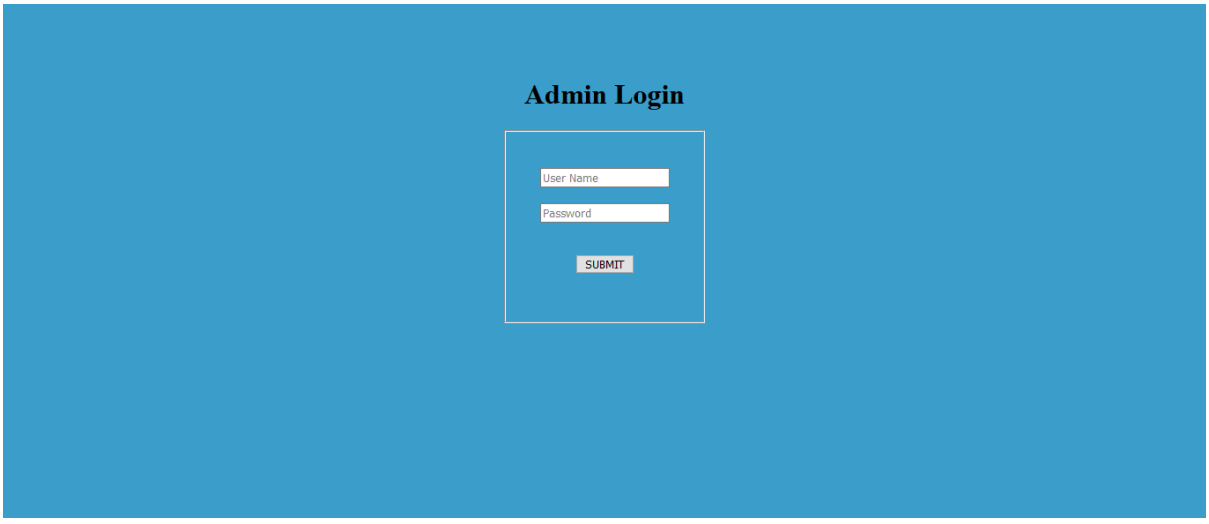
- In future our software could be further enhanced by Live stream video update and also Individual message can be send.
- It can be implemented in mobile also.
- The live stream can further be implemented into mobile and we can use better encryption formats since the data stored which is not available to public is very confidential.

APPENDIX

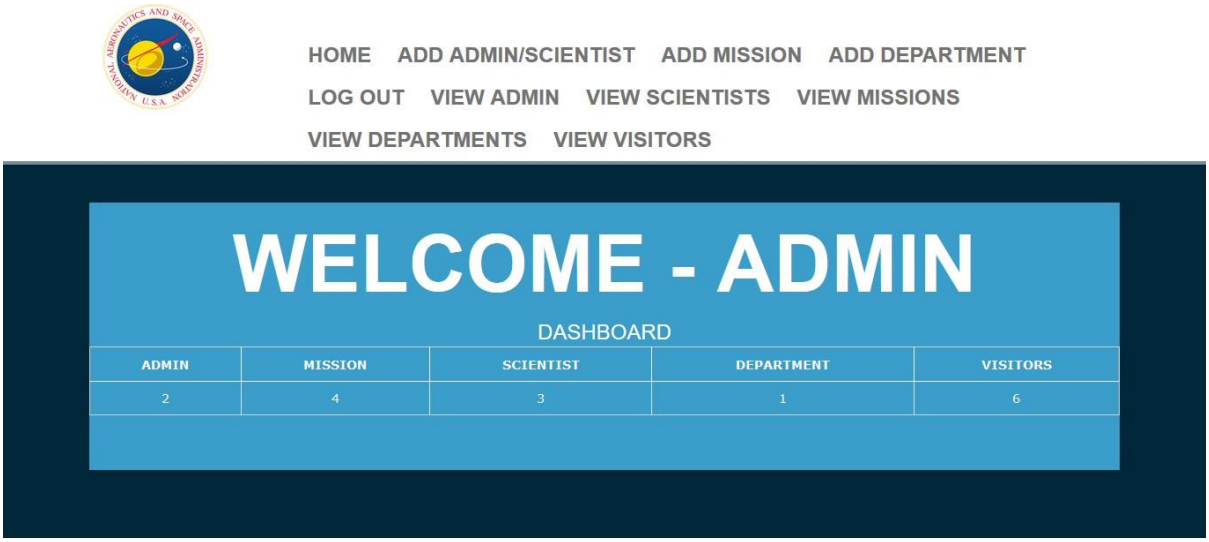
a) SCREENSHOTS:

Fig(1): Home page

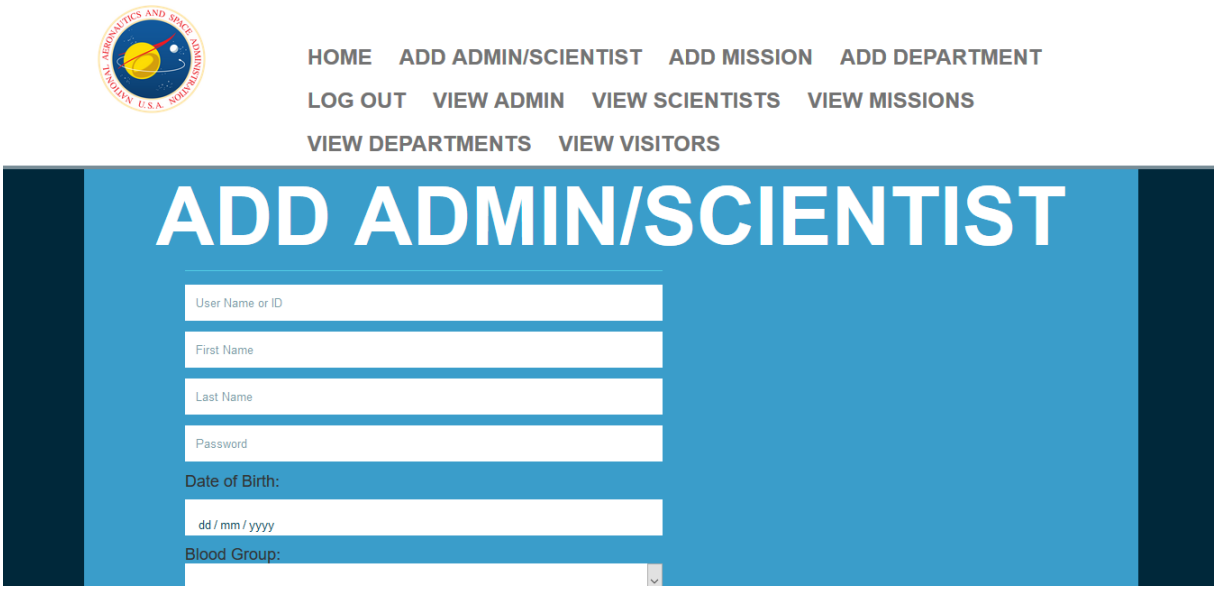
Fig(2): Admin Login



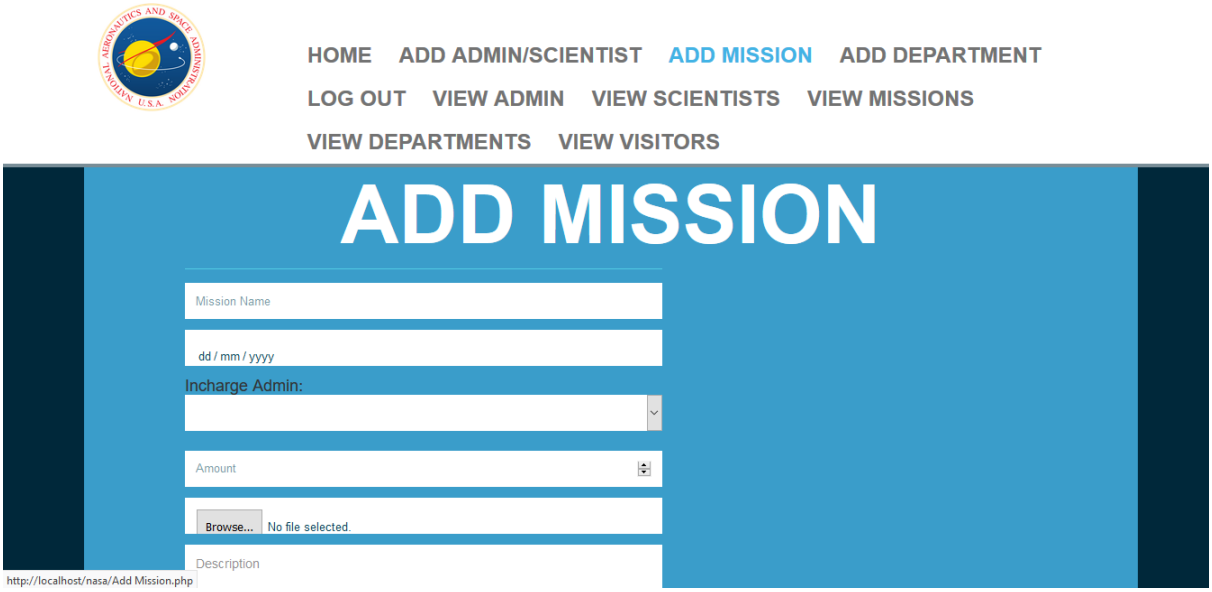
Fig(3): Admin page



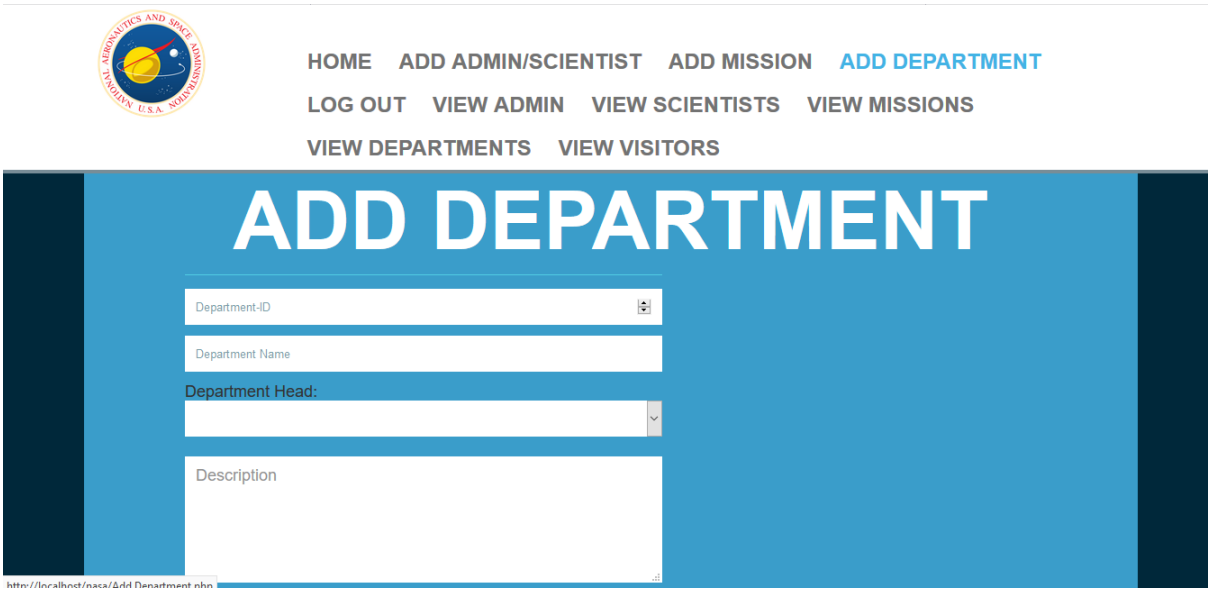
Fig(4): Add Scientist



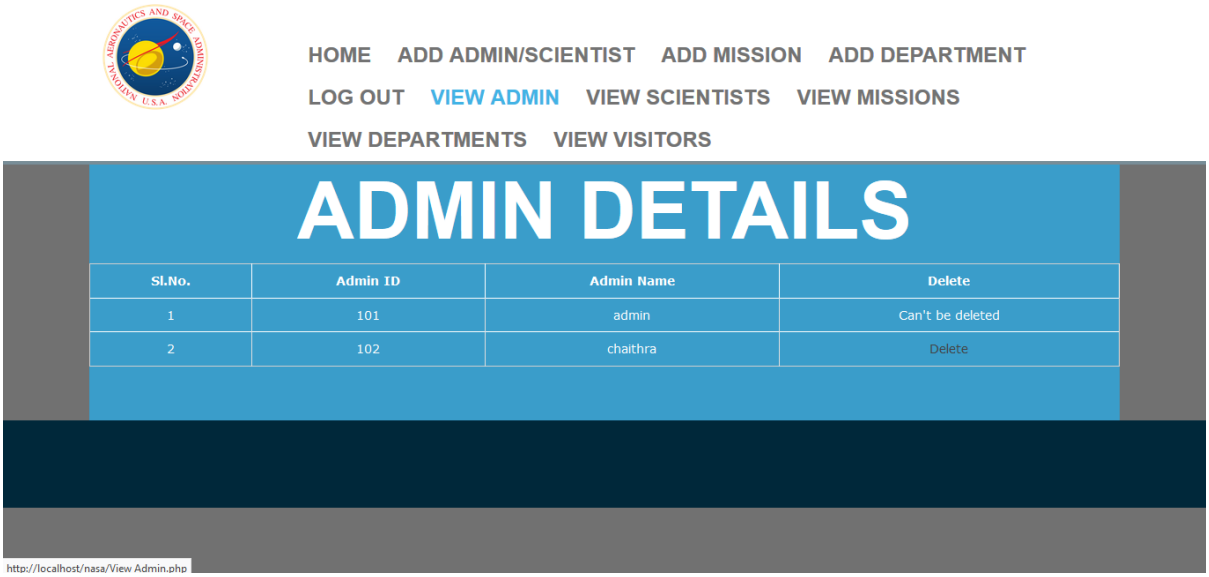
Fig(5): Add Mission



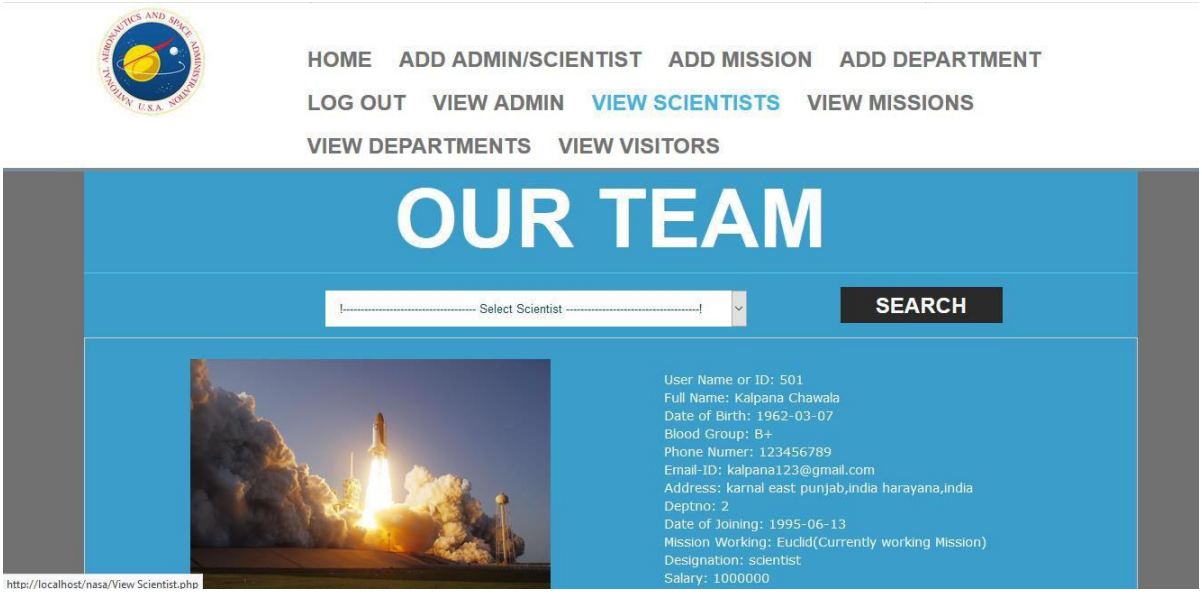
Fig(6): Add Department



Fig(7): View Admin

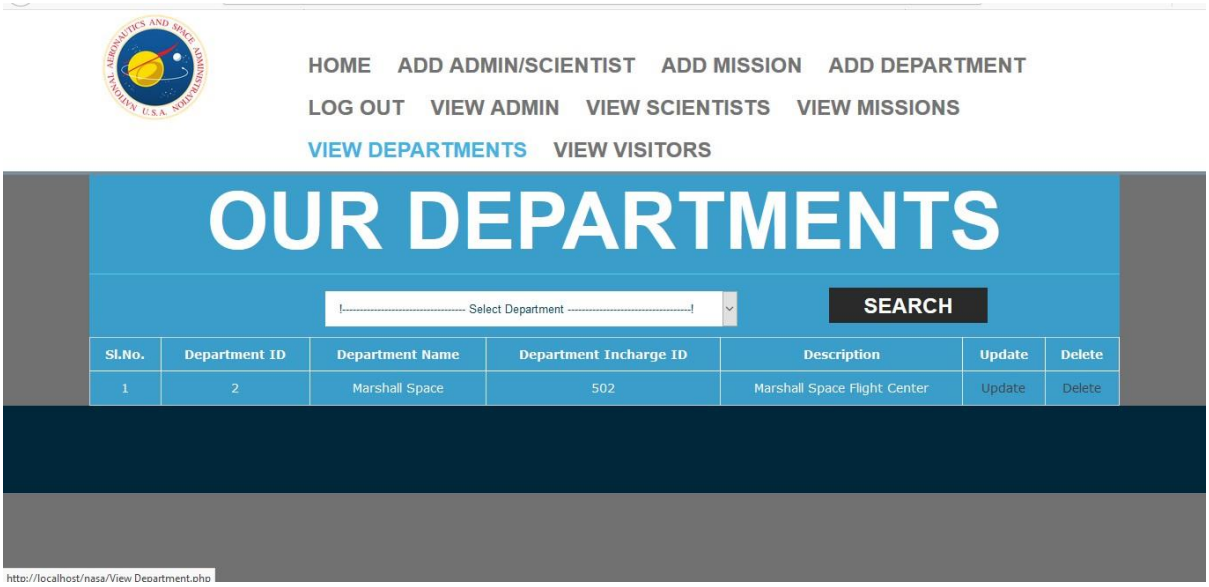


Fig(8): View Scientist



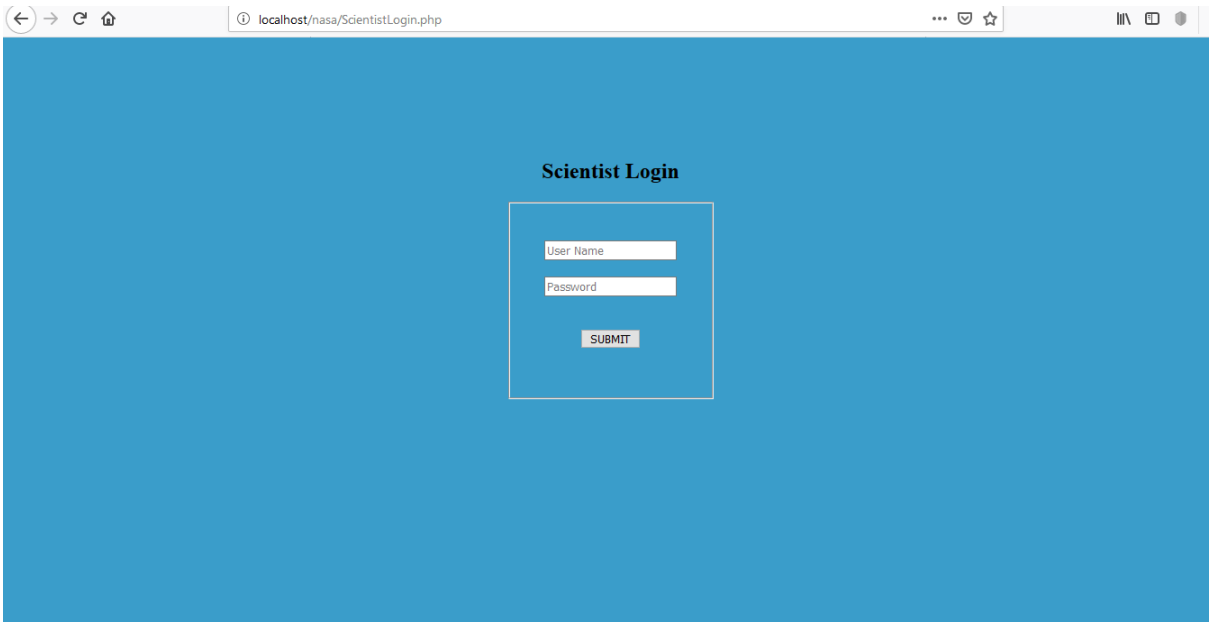
Fig(9): View Mission

Fig(10): View Department

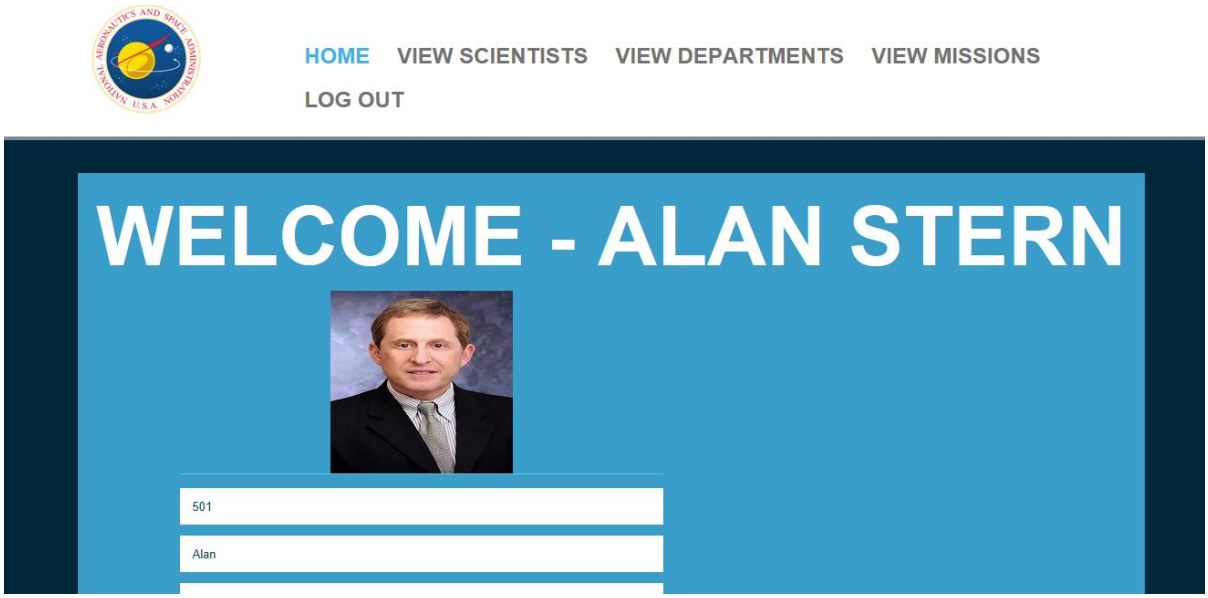


Fig(11): View Visitors

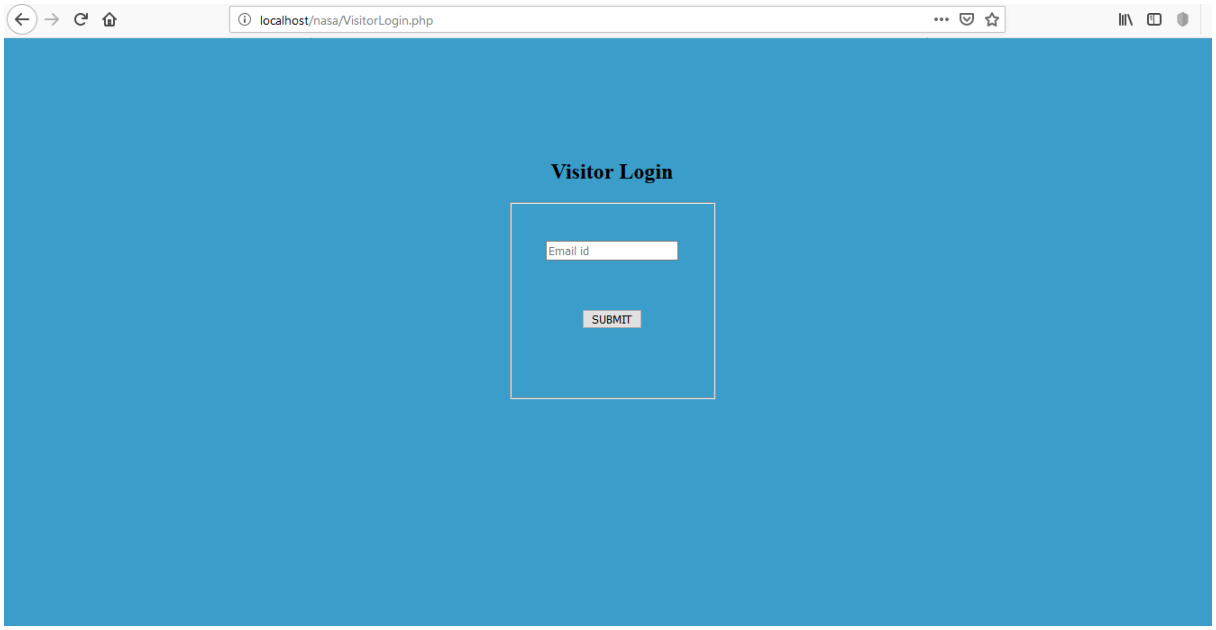
Fig(12): Scientist Login



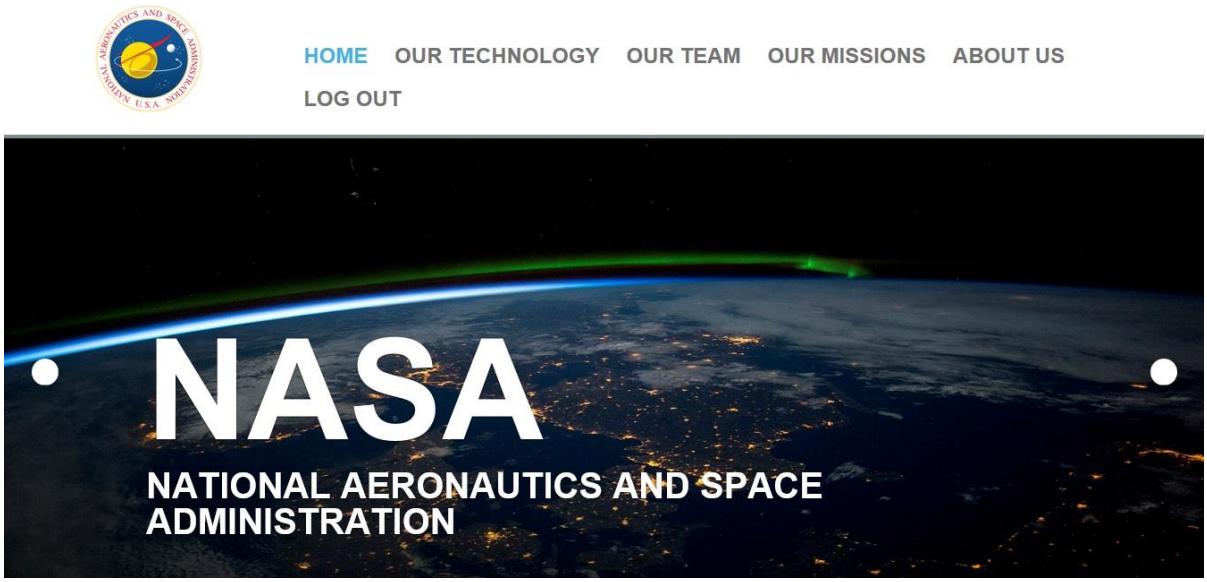
Fig(13): Scientist Page



Fig(14): Visitors Login



Fig(15): Visitor Page



Fig(16): Visitor SignIn

b) SOURCE CODE :

```
<!DOCTYPE html>
<html lang="en">
<head>
<?php
//Turn off
error_reporting(0);
  include "Head.php";
  ?>
</head>
<body>
<?php
//Turn off
error_reporting(0);
  include "connect.php";
  include "AHeader.php";
  ?>
<br/><br/><br/><br/>
<div class="container" align="center">
                        <div class="row">
                                <div class="contact2-caption clearfix">
                                        <div class="contact2-heading text-center">
                <?php
                        session_start();
                        if(!(isset($_SESSION['username'])) )
                                header("Location:AdminLogin.php");
                        $usr=$_SESSION["username"];
                        echo  "<h2>WELCOME - $usr</h2>";
```

```
echo "<font size='5' color='White'>DASHBOARD<br></font>";

echo '<font color="white" face="verdana">';

echo "<table border='1' style='text-align:center;'>";

echo "<tr><th style='text-align:center;'><b>ADMIN</b></th><th
style='text-align:center;'><b>MISSION</b></th><th style='text
align:center;'><b>SCIENTIST</b></th><th style='text
align:center;'><b>DEPARTMENT</b></th><th style='text-
align:center;'><b>VISITORS</b></th></tr>";

echo "<tr style='background-color: rgba(0, 0, 0, 0.0);'><td>";

$query = "SELECT COUNT(*) AS SUM FROM admin";

$result = mysqli_query($mysqli,$query);

$rows = mysqli_fetch_assoc($result);

echo $rows['SUM'];

echo "</td><td>";

$query = "SELECT COUNT(*) AS SUM FROM mission";

$result = mysqli_query($mysqli,$query);

$rows = mysqli_fetch_assoc($result);

echo $rows['SUM'];

echo "</td><td>";

$query = "SELECT COUNT(*) AS SUM FROM scientist";

$result = mysqli_query($mysqli,$query);

$rows = mysqli_fetch_assoc($result);

echo $rows['SUM'];

echo "</td><td>";

$query = "SELECT COUNT(*) AS SUM FROM department";

$result = mysqli_query($mysqli,$query);

$rows = mysqli_fetch_assoc($result);

echo $rows['SUM'];

echo "</td><td>";

$query = "SELECT COUNT(*) AS SUM FROM visitors";
```

```
                    $result = mysqli_query($mysqli,$query);
                    $rows = mysqli_fetch_assoc($result);
                    echo $rows['SUM'];
                    echo "</td>";
                    echo "</table><br><br><br>"
?>
                                </div>
                            </div>
                    </div>
</div>
</body>
</html>
```

BIBLIOGRAPHY

BOOK REFERENCES:

- Learn to Code HTML and CSS: Develop and Style Websites (Web Design Courses) 1st, Kindle Edition by Shay Howe
- *PHP 6 and MySQL 5* - Larry Ullman

WEBSITE REFERENCES:

HTML Learning:

- https://www.codecademy.com/
- https://dash.generalassemb.ly/
- https://www.w3schools.com/

PHP Learning:

- http://www.tutorialspoint.com/php/
- https://killerphp.com
- https://www.w3schools.com/