



Object Oriented Programming

PROJECT REPORT

Course Code: CSE 234

Submitted to:

Md. Zahid Hasan
Associate Professor
Daffodil International University

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Team Member

1. Samsun Naher Asme

ID no: 203-15-3882

Section: PC-A

Department of CSE

2. Md. Rakibul Islam Shanto

ID no: 203-15-3871

Section: PC-A

Department of CSE

Project Name

Airline Management System

Abstract

We have a keen interest in aircraft. That is why we made an effort to address the airplane. Traveling by airline is the fastest option. Thus, it is imperative. There are numerous transportation options, including buses and trains. This one is like all the others. We attempted to start with this as our first Django project.

Introduction

Nowadays, any company needs have a website to display their products and services, and this project also represents a company that operates in the airline industry. We utilize Django, HTML, VS Code, Anaconda, and Xampp to create this kind of website. Python-based Django is a very well-liked and feature-rich server-side web framework. This project demonstrates the benefits of using Django, one of the most well-liked web server frameworks, to build your own websites. This website is very user-friendly and straightforward to navigate. Although it doesn't have many functions, it does contain those that are essential for an aviation management system.

Method

We have studied how Django functions after learning about the fundamentals of the framework and other components required to create any type of website.

Basically, a web application waits for HTTP requests from the web browser on a standard data-driven website. The program determines what is required in response to a request based on the URL and sometimes data from a POST or GET request. It may then read or write data from a database or carry out additional operations to fulfill the request,

depending on what is necessary. The program will then reply to the web browser by placing the acquired data into placeholders in an HTML template, frequently producing an HTML page dynamically for the browser to view. Knowing about Django, I used Anaconda PowerShell to create an environment. I started working on my frontend, or the design portion, using VS Code to build, html to create the pages, and Bootstrap to design.

Django

A high-level Python web framework called Django enables the quick creation of safe and dependable websites. Django, which was created by seasoned programmers, handles a lot of the hassle associated with web development, allowing you to concentrate on developing your app without having to invent the wheel.

<u>Templates</u>: A template is a text file that specifies the organization or format of a file. Actual content is represented by placeholders. Using an HTML template and data from a model, a view can dynamically produce an HTML page. Any type of file can have its structure defined by a template; HTML is not required!

<u>View</u>: A view is a function that receives HTTP requests and responds to those requests with HTTP. Models provide views with access to the data they require to fulfill requests, and templates are given control over the formatting of the response.

<u>Models</u>: Models are Python objects that specify the data structure of an application and offer tools for managing (adding, deleting, and querying) database entries.

<u>Urls</u>: Writing distinct view functions to handle each resource is significantly more maintainable than processing requests from all URLs at once using a single function. Based on the request URL, a URL mapper is utilized to direct HTTP requests to the relevant view. The URL mapper can also look for specific strings or number patterns in a URL and pass those patterns as data to a view function.

Background

This project was created utilizing software like VSCode, Annaconda, Utilize a database, Create a table, add an image, use HTML and CSS, utilizing Python, HTML, Django, and Bootstrap.

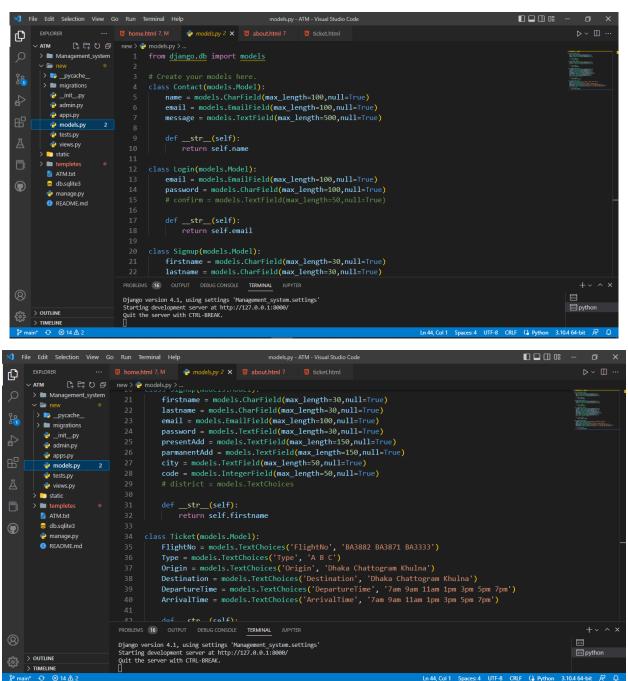
Backend

A database, a server, and an application make up a website's back end. The technology that drives the many components that collectively allow the user-facing portion of the website to even exist is created and maintained by a back-end developer.

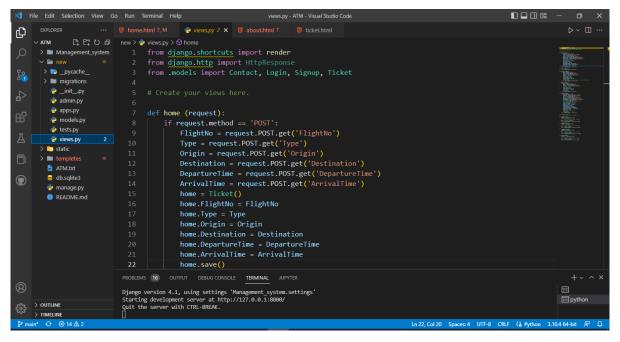
Therefore, if we disassembled our backend, there would be a projects file, project's app files, static files including css files, html files, which are my webpages, and finally a requirement page that included the project's needs.

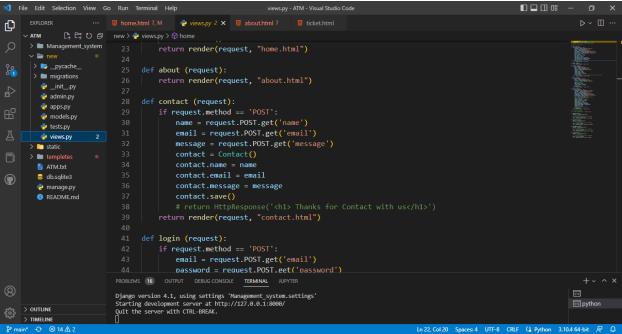
Urls.py

Models.py



Views.py





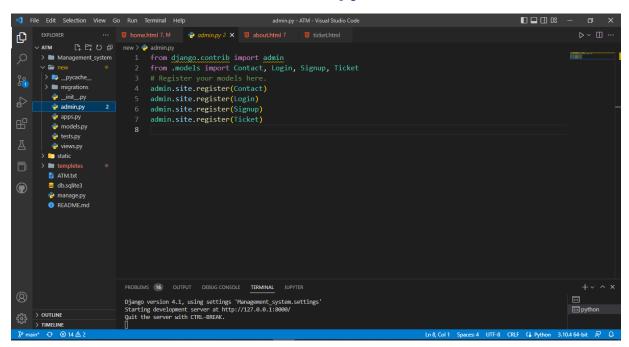
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     ∨ ATM [1 □ 1 □ new > 🕏 views.py > 🕤 home
                               77  # def showdata (request):
78  # return render(request, "showdata.html")
     > Management_system
      ∨ 📻 new
       > migrations
                               80 def showdata(request):
        e __init__.py
         admin.py
         e apps.py
         models.py
                                         return render(request, 'showdata.html',data)
      views.py
                                    def logindata(request):
                                      logins = Login.objects.all()
      > limit templetes
        ATM.txt
         ⊜ db.sqlite3
         manage.py
                                        data = {'Login':logins}

    README.md

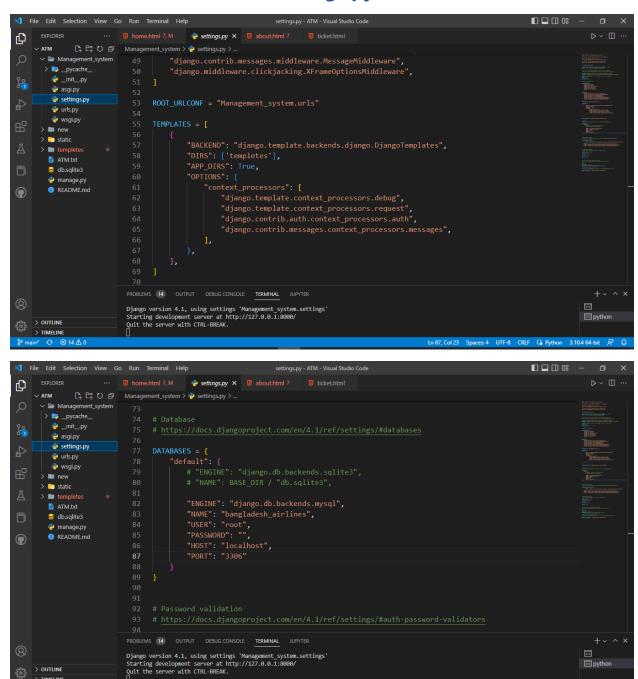
                                     return render(request, logindata.html',data)
                                     def signupdata(request):
                                         signups = Signup.objects.all()
                                         data = {'Signup':signups}
                              Django version 4.1, using settings 'Management_system.settings' Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
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Admin.py



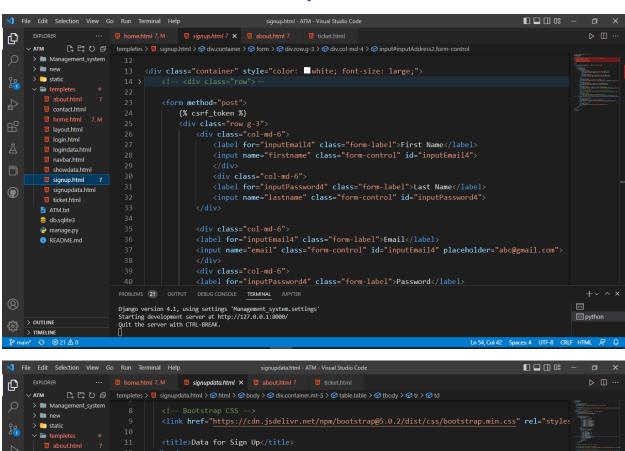
Settings.py

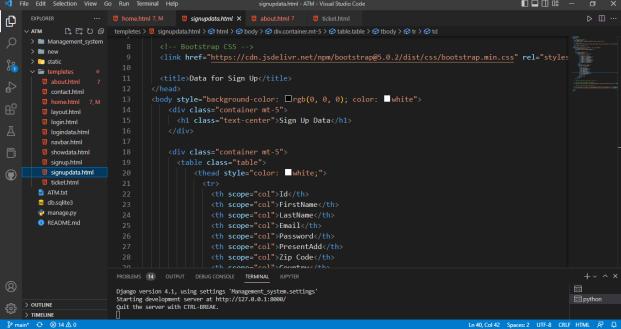


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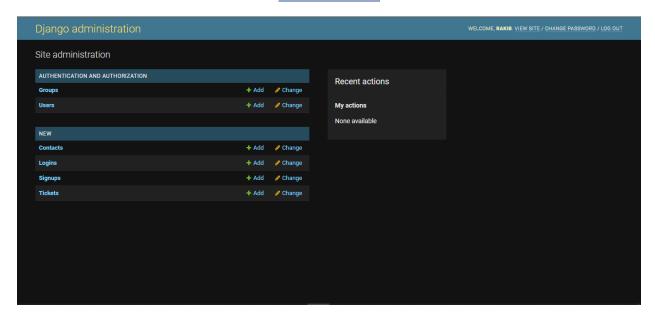
Templates

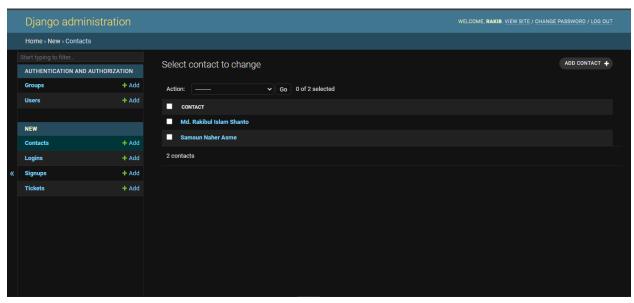


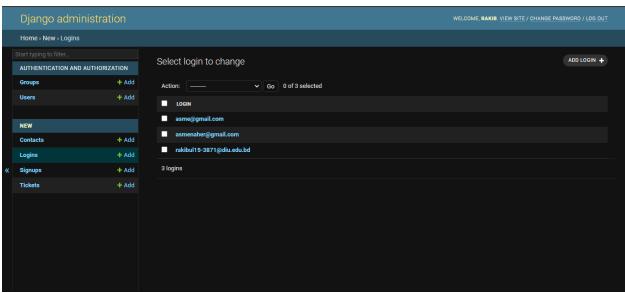


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Ф
    V ATM ☐ ☐ Empletes > ☐ navbar.html > ❷ div.p-1.mb-2.bg-secondary.bg-gradient > ❷ div.container.my-2
                            > Management_system
     > 🖿 new
     > 🛅 static
     w = templetes
subout.html
contact.html
home.html
                                               <img src="/static/img/n.png" alt="" width="44" height="40">
</a>
        login.html
logindata.html
        navbar.html
         showdata.html
                                                signup.html
         signupdata.html
                                               <a class="nav-link" href="{% url 'about' %}"><b style="color: ■rgb(124, 222, 230);</pre>
       ATM.txt
        manage.py
                                                 <a class="nav-link" href="{% url 'contact' %}"><b style="color: ■rgb(125, 215, 221)</pre>
       README.md
                           Django version 4.1, using settings 'Management_system.settings' Starting development server at http://127.0.0.1:8000/
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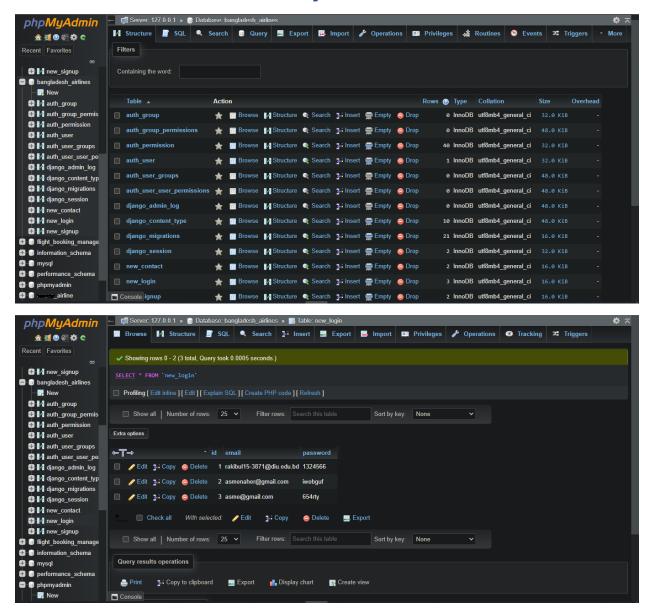
Admin site







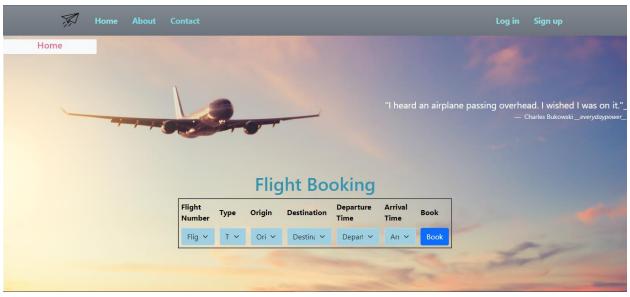
MySQL

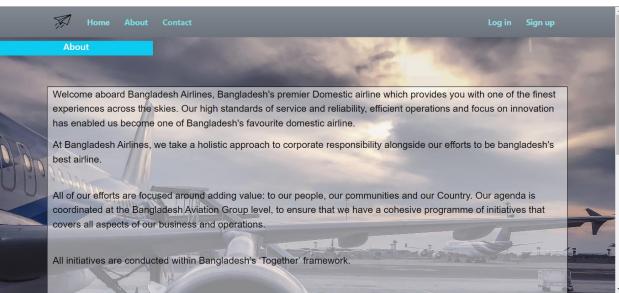


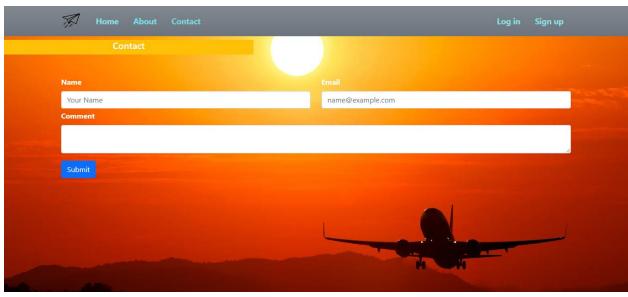
Frontend

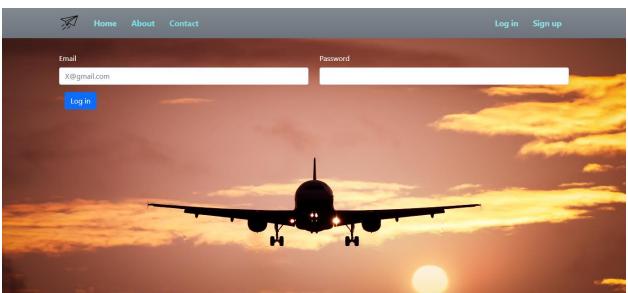
Django templates, which the framework converts by request to HTML pages that our users will be able to interact with, are used to develop the front end of our web application.

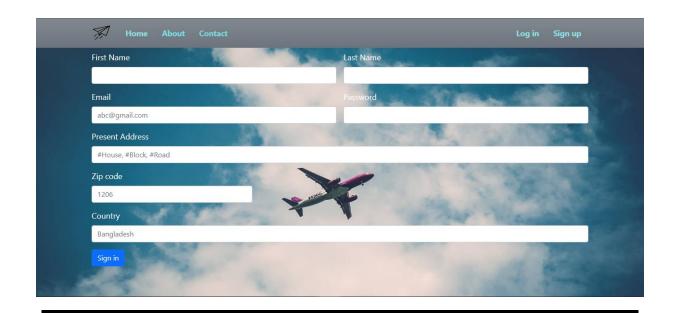
Home











Log In Data

ld	Email	Password
1	rakibul 15-3871@diu.edu.bd	1324566
2	asmenaher@gmail.com	iwebguf
3	asme@gmail.com	654rty

Sign Up Data

Id	FirstName	LastName	Email	Password	PresentAdd	Zip Code	Country
1	Samsun Naher	Asme	naher22@gmail.com	1236654	gazipur	5647	Bangladesh
2	Md. Rakibul Islam	Shanto	shanto@gmail.com	6543211	Dhaka	1206	Bangladesh

Conclusion

The possibility by our esteemed professors to complete this assignment is a crucial component of our course "OOP 2." We were able to create something on our own thanks to this project. To develop the project, we employed a few software programs and design ideas. We were greatly motivated to construct further projects of this nature by the process of building this one. Many fans of web programming now have a new job choice thanks to Django.

Last but not least, we are grateful for this project since it allowed us to learn a lot of things that will be useful to us in the future.

Github Link

https://github.com/cryptic91/Bangladesh_Airlines

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