

# Project Document

**Workspace Login URL :** <https://bluestock.in/blueflow/>

**Login Details :** You will receive over mail

**Work Policy :** <https://bluestock.in/hr/work-policy.html>

## Team Structure

ID	Name	Mail	Mo	Role
11	Harshit S	harshithyadav662@gmail.com	9353169232	Team Lead
12	U Shiva prasan chary	shivachary8790@gmail.com	8790570577	Team Lead
13	Anamika Dhangar	anamikadhan7147@gmail.com	9301867431	Co-Team Lead
14	Shrutika Yerawar	shrutikayerawar80@gmail.com	8767072850	Co-Team Lead
15	Mrityunjay Rajora	mrityunjayrajora8@gmail.com	7073385382	Dev
16	Harsh Gupta	hkgupta160420@gmail.com	7877454334	Dev
17	Rohan Singh	rohansingh25102003@gmail.com	7980979342	Dev
18	Karri Yakshita	karriyakshita@gmail.com	9490168448	Dev
19	Sehajdeep Singh	sehajdeep1st@gmail.com	7340907737	Dev
20	Chetan kamineni	ckamineni@gitam.in	9492262977	Dev

**Project:** IPO Web Application & REST API Development

**Company:** Bluestock Fintech

**Website :** [www.bluestock.in](http://www.bluestock.in)

**Mail Id :** hello@bluestock.in

**WA Contact :** 7038202440

**Date:** 01/05/2025

**Department :** #BF-SOFT-DEV

**Project Manager** - Yash Kale

**Mail id** - yashkale@bluestock.in

**WA No** : 9209550273

**Important :-**

Check UI UX Design- <https://www.figma.com/design/Qz0zqYktZHH1iQLHNFg8rE/UI-UX-Design---IPO-Web-App?node-id=0-1&t=SFaWLUo9w2eNXt1z-1>

Check System Design: - <https://www.figma.com/board/g9bjreevYNJkfMuwRacyaP/System-Design?t=rhom7O3DRI5pdHkG-1>

Assets (Logo,SVG, PNG Etc : [https://drive.google.com/drive/folders/1yH9Y\\_mlqqEkZXtzhqHSuFtEwFOr8BXH5?usp=drive\\_link](https://drive.google.com/drive/folders/1yH9Y_mlqqEkZXtzhqHSuFtEwFOr8BXH5?usp=drive_link)

**Task Management for (Team lead & Co Team Lead):**

- Use Notion for assigning and tracking tasks within the team.
- Developers must report daily work status to the Team Leader.
- Developers also can change their role by taking permission of team leader
- The Team Leader should report work progress every 7 days to Mr. Yash Kale.
- Write high quality industry standard code.
- Take regularly google meeting with team members

**GitHub Repo Link:** [Clone this repo and start working on it]

Git Link - (Check Mail) –

If Production repo access not granted, Team Lead must create **private repository** for entire team member and give access to all team members.

**Introduction**

This report outlines the production-level software development tasks assigned to our interns at Bluestock Fintech. The project involves developing an IPO web application and REST API for the Bluestock website/app and our clients' websites/apps. These tasks are designed to enhance the interns' practical knowledge and contribute to our ongoing projects. Each task aligns with our company's goals and the interns' skills and career aspirations.

### **Objective:**

Develop a web application and REST API that provides IPO-related information to the public. The application will display information such as company logo, name, price band, opening and closing dates, issue size, issue type, listing date, status, IPO price, listing price, listing gain, current market price (CMP), and current return. Additionally, it will include downloadable RHP and DRHP PDFs.

### **Software Requirements**

Backend:

- SDK: Python (Version 3.12.3)
- Framework: Django (Version 5.0.6) - `pip install Django`
- API: Django REST Framework (Version 3.15.1) - `pip install djangorestframework`
- Tools: Postman for API testing, Git & GitHub for version control

Frontend:

- Technologies: HTML, CSS, plain JavaScript (no NodeJS)
- Framework: Bootstrap 5 (via CDN link)
- Database: PostgreSQL
- IDE: Visual Studio Code (VS Code)

### **1. Prerequisites**

Interns are required to familiarize themselves with the following concepts before starting the project:

What is Stock Market ? - <https://youtu.be/Zt6bVL39b9M?si=efZqf77wkWaOrnAQ>

What is IPO ? - [https://youtu.be/gWrR5qPEmWE?si=QAf19b\\_i-uSMn3vV](https://youtu.be/gWrR5qPEmWE?si=QAf19b_i-uSMn3vV)

### **Project Features**

The IPO Web Application will provide the following information to the public:

- Company Logo
- Company Name

- Price Band
- Open Date
- Close Date
- Issue Size
- Issue Type
- Listing Date
- Status
- IPO Price
- Listing Price
- Listing Gain
- Current Market Price (CMP)
- Current Return
- RHP PDF
- DRHP PDF

This information will be available on both the Bluestock website/app and clients' websites/apps.

## **Development Overview**

Important Notes:-

- This is a production-level project; therefore, write quality code and test features regularly.
- Apply necessary security rules to ensure data protection and integrity.
- Utilize ChatGPT for testing code, writing features, and designing the database schema.

### **1. References**

<https://youtu.be/s7aINQPGNDM?si=ydfab7GMUaMCg91W>

[https://www.youtube.com/watch?v=C1NgOmoOszc&list=PLjVLYmrlmjGcyt3m6rt21nfjhYSWP\\_Ue\\_](https://www.youtube.com/watch?v=C1NgOmoOszc&list=PLjVLYmrlmjGcyt3m6rt21nfjhYSWP_Ue_)

<https://youtu.be/5EY6JFptZgw?si=nwZ5DE7nVc4TXs8X>

## **9.Deadlines**

Date	Work Status
-	Complete All Frontend (Client Side, Admin Dashboard)
-	Complete Entire Project

//Deadline for entire project submission updated in workspace

**Note:** The timeline is flexible. Discuss with your team leader to determine a suitable schedule for all developers.

### Submission Guidelines

- Do not commit buggy or error-prone code.
- Thoroughly test your code on your local machine before committing.
- Commit changes to the main branch and push them.

### 10. Resources for This Project Assets

(Logo,SVG, PNG Etc) :

[https://drive.google.com/drive/folders/11Q6kapopPp4tVn82QKRCX8cpHYHO5GCK?usp=drive\\_link](https://drive.google.com/drive/folders/11Q6kapopPp4tVn82QKRCX8cpHYHO5GCK?usp=drive_link)

(Request Access)

### Figma UI/UX Prototype:

Please visit link for complete details -

<https://www.figma.com/design/Qz0zqYktZHH1iQLHNFg8rE/UI-UX-Design---IPO-Web-App?node-id=0-1&t=SFaWLUo9w2eNXt1z-1>

BF

Bluestock Fintech

Search

Q

V

Hi, Vishal

▼

MENU

Dashboard

Manage IPO

IPO Subscription

IPO Allotment

OTHERS

Settings

API Manager

Accounts

Help

Upcomming IPO | Dashboard

Register IPO

Company	Price Band	Open	Close	ISSUE SIZE	ISSUE Type	Listing Date	Status	Action	Delete/View
Adani Power	₹ 329 - 136	2023-06-03	2024-06-05	45530.15 Cr.	Book Built	2023-06-10	Ongoing	Update	<div><div></div><div></div></div>
VBL LTD	₹ 229 - 136	2024-06-03	2024-06-05	1330.15 Cr.	Book Built	2018-06-10	Comming	Update	<div><div></div><div></div></div>
Tata Motor	₹ 12549 - 136	2024-06-03	2024-06-05	1340.15 Cr.	Book Built	2016-06-10	New Listed	Update	<div><div></div><div></div></div>
HDFC LTD	₹ 1244 - 136	2024-06-03	2024-06-05	830.15 Cr.	Book Built	2029-06-11	Comming	Update	<div><div></div><div></div></div>
Tata Motor	₹ 629 - 136	2024-06-01	2024-06-05	820.15 Cr.	Book Built	2023-06-10	Ongoing	Update	<div><div></div><div></div></div>
VBL LTD	₹ 629 - 136	2024-06-03	2024-06-05	130.15 Cr.	Book Built	2024-06-10	Comming	Update	<div><div></div><div></div></div>
Tata Motor	₹ 6729 - 136	2024-06-03	2024-06-05	170.15 Cr.	Book Built	2027-06-10	New Listed	Update	<div><div></div><div></div></div>
VBL LTD	₹ 1629 - 136	2024-06-03	2024-06-05	130.15 Cr.	Book Built	2022-06-10	Comming	Update	<div><div></div><div></div></div>
Tata Motor	₹ 2329 - 136	2024-06-03	2024-06-05	130.15 Cr.	Book Built	2023-06-10	New Listed	Update	<div><div></div><div></div></div>
VBL LTD	₹ 329 - 136	2024-06-03	2024-06-05	130.15 Cr.	Book Built	2021-06-10	Comming	Update	<div><div></div><div></div></div>

<

1

2

...

9

10

>

BF Bluestock Fintech

Search

Hi, Vishal

MENU

Dashboard

Manage IPO

IPO Subscription

IPO Allotment

OTHERS

Settings

API Manager

Accounts

Help

Upcomming IPO Information

Register

Cancel

Manage your IPO Details

IPO Information

IPO Info

NSE India

Tech Lead

Pune

Upload Logo

Delete

Company Name

Vodafone Idea

Price Band

Not Issued

Open

Not Issued

Close

Not Issued

Issue Size

2300 Cr.

Issue Type

LISTING DATE

Not Issued

Status

NEW LISTED IPO DETAILS (WHEN IPO GET LISTED)

IPO PRICE

₹ 383

LISTING PRICE

₹ 435

LISTING GAIN

13.58 %

LISTING DATE

2024-05-30

CMP

₹410

CURRENT RETURN

7.05 %

RHP

Enter RHP PDF Link

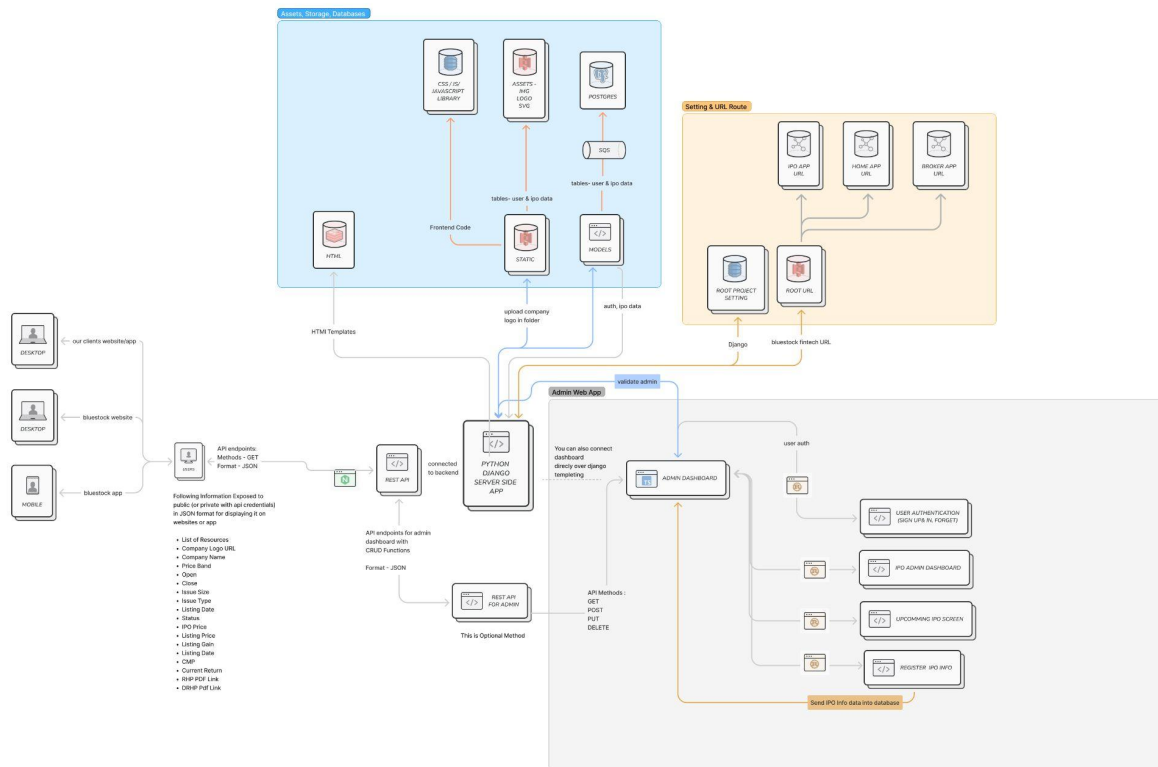
DRHP

Enter DRHP PDF Link

**System Design:**

View More: -

<https://www.figma.com/board/g9bjreevYNJkfMuwRacyaP/System-Design?node-id=0-1&p=f>



## System Design : IPO Web Application & REST API By Bluestock Fintech

### Database Diagram:

User table already created Username- admin Password – admin

### ER Diagram Description:

#### Entities and Attributes:

##### 1. Companies

- **company\_id**: INT (Primary Key, Auto-Increment)
- **company\_name**: VARCHAR(255) (Not Null)
- **company\_logo**: VARCHAR(255) (URL or file path)

##### 2. IPOs

- **ipo\_id**: INT (Primary Key, Auto-Increment)
- **company\_id**: INT (Foreign Key referencing Companies.company\_id)



- **price\_band**: VARCHAR(50)
- **open\_date**: DATE
- **close\_date**: DATE
- **issue\_size**: VARCHAR(100)
- **issue\_type**: VARCHAR(50)
- **listing\_date**: DATE
- **status**: ENUM('Upcoming', 'Open', 'Closed', 'Listed')
- **ipo\_price**: DECIMAL(10,2)
- **listing\_price**: DECIMAL(10,2)
- **listing\_gain**: DECIMAL(5,2)
- **current\_market\_price**: DECIMAL(10,2)
- **current\_return**: DECIMAL(5,2)

### 3. Documents

- **document\_id**: INT (Primary Key, Auto-Increment)
- **ipo\_id**: INT (Foreign Key referencing IPOs.ipo\_id)
- **rhp\_pdf**: VARCHAR(255) (URL or file path)
- **drhp\_pdf**: VARCHAR(255) (URL or file path)

### Relationships:

#### 1. Companies to IPOs

- **Type**: One-to-Many
- **Description**: One company can have multiple IPOs, but each IPO is associated with exactly one company.
- **Foreign Key**: company\_id in IPOs references company\_id in Companies.
- **On Delete**: CASCADE (if a company is deleted, all related IPOs are deleted).

#### 2. IPOs to Documents

- **Type**: One-to-Many
- **Description**: One IPO can have multiple documents, but each document is associated with exactly one IPO.
- **Foreign Key**: ipo\_id in Documents references ipo\_id in IPOs.
- **On Delete**: CASCADE (if an IPO is deleted, all related documents are deleted).

[Companies]	--(1:N)--	[IPOs]	--(1:N)--	[Documents]
company_id (PK)		ipo_id (PK)		document_id (PK)
company_name		company_id (FK)		ipo_id (FK)
company_logo		price_band		rhp_pdf
		open_date		drhp_pdf
		close_date		
		issue_size		
		issue_type		
		listing_date		
		status		
		ipo_price		
		listing_price		
		listing_gain		
		current_market_price		
		current_return		

### User Flow:

N/A