Project Synopsis
on
Innogeeks Web Portal

Submitted as a part of course curriculum for

Bachelor of Technology
in
Computer Science

Submitted by
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2021-2022

DECLARATION

We hereby declare that this submission is our work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgement has been made in the text.

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CERTIFICATE

This is to certify that Project Report entitled "**Innogeeks Web Portal**" which is submitted by **Sanchita Mishra, Vanshika Singhal, Sakshi Singh and Shreyash Singh** in partial fulfilment of the requirement for the award of degree B. Tech. in Department of Computer Science of Dr A.P.J. Abdul Kalam Technical University, Lucknow is a record of the candidates own work carried out by them under my supervision. The matter embodied in this report is original and has not been submitted for the award of any other degree.

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ACKNOWLEDGEMENT

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ABSTRACT

Innogeeks club portal is a website cum student portal for the members of the technical society – Innogeeks. The portal aims to provide complete technical information regarding the club activities and technical skills and development of the members. It can further be referred by alumni of the club in case they want to guide some particular students or need employees with relevant skills. The member profiles are maintained with complete background details, skills, projects and achievements. These provide detailed information regarding the user's working project Moreover the members will be ranked on the basis of their coding profiles and projects and achievements, this would create a healthy competitive environment within the members of the society. Moreover, the dynamic resumes would ease their requirement of showcasing their resumes to recruiters and alumni. Additionally, the members would be able to share their interview experiences or guide the students on the basis of their experience by writing blogs which can be referred by the students of upcoming batches.

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CHAPTER 1
INTRODUCTION

1.1 INTRODUCTION

Innogeeks web portal is a website cum student portal for the students of the club. It is designed to provide complete technical information regarding the club activities and technical skills and development of the members of the club.

The complete website could be divided into three parts-
- **Public View** - Accessible to everyone
- **Member Portal** - Available only for club members.
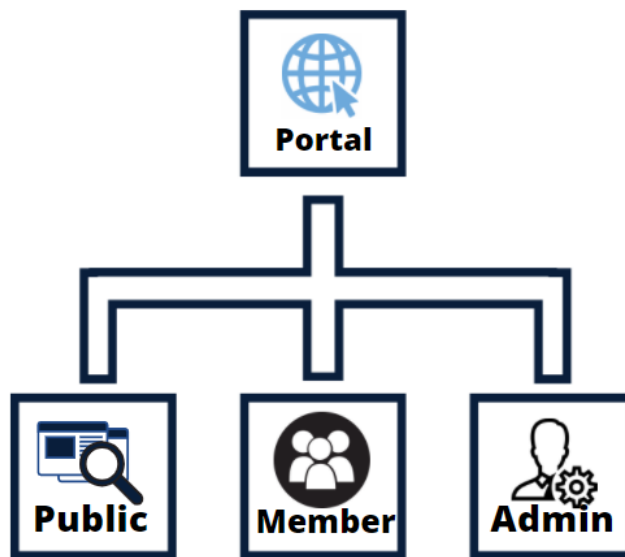- **Admin View** - Available to members according to their posts.

Fig 1.1 Major Divisions of Portal

THE PUBLIC VIEW:

This is available for everyone. Our achievements, Gallery, Team, Contact form, Updates etc are available here. It can be viewed at https://innogeeks.in/
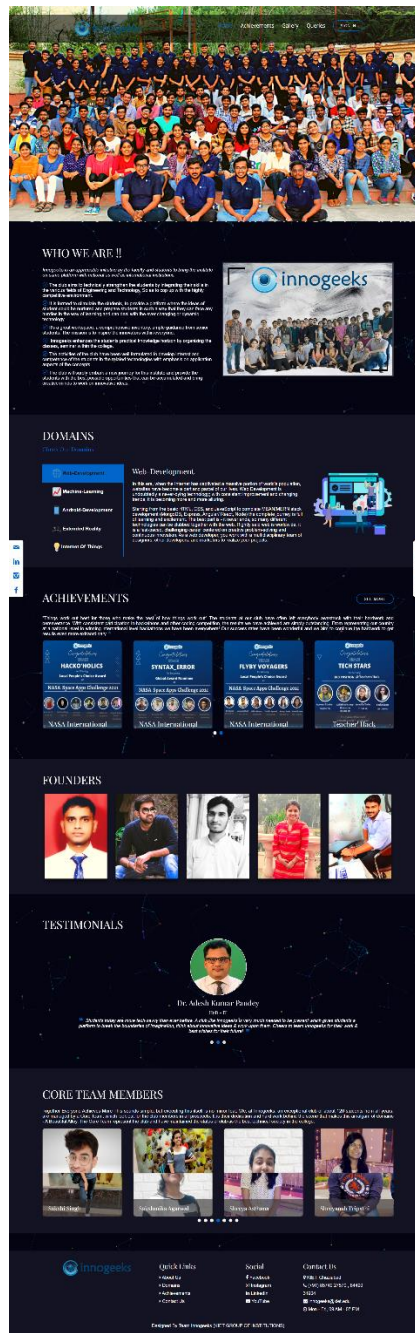

Fig 1.2 Abstract Public View

THE MEMBER PORTAL:

It is available only to the members of the society. Its features include-

- Dynamic Resume Building
- Writing and publishing Blogs
- Keeping record of one's achievements, projects, hackathons, blogs
- Personalized resources according to their domain is provided to them
- Ranking modules based upon their coding profile on various platforms
- Mentor and Mentees section to keep record and assign grades of tasks provided by mentors to the mentees.

Fig 1.3 Abstract Public View

THE ADMIN VIEW:

- The entire database, updates, dynamic features of website is managed from here.
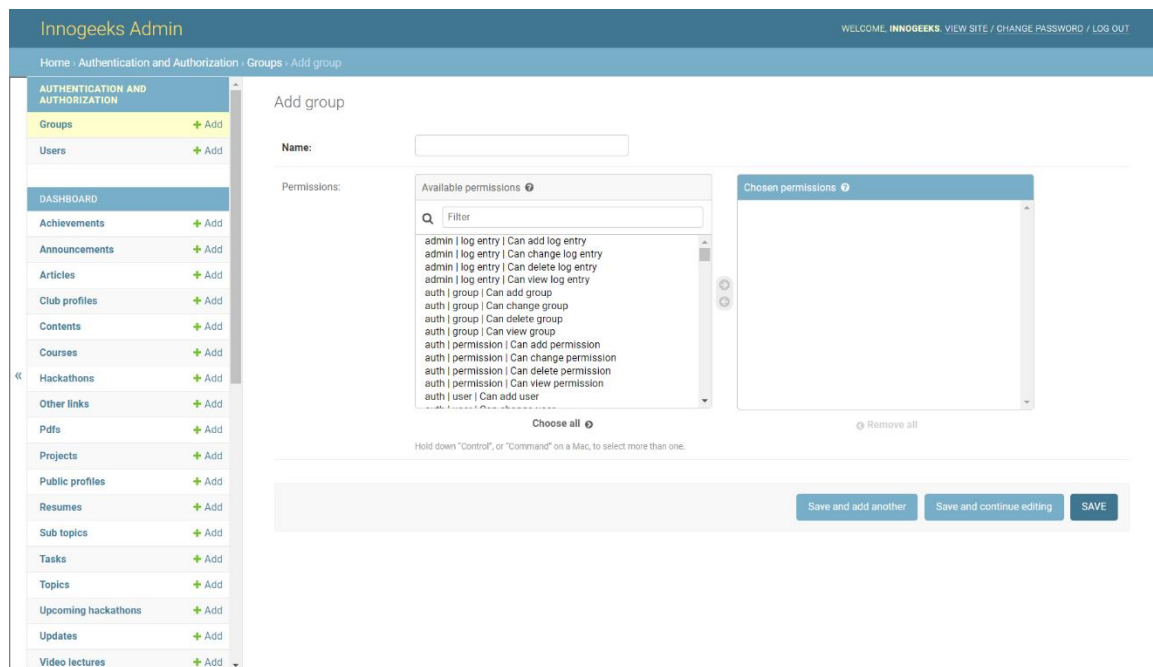
Fig 1.4 Abstract Admin View

1.2 PROBLEM STATEMENT:

Alumni of the club find it difficult to get in touch with the members with required skill set. They often have to search via LinkedIn but the results are too vast and varied, searching on our portal will not only make their search more relevant and descriptive but being the alumni, they will have better equation than others.

Moreover, a sequential record of the data of club members cannot be maintained properly in files. To maintain proper functioning and record of the club there is a need of a club portal

1.3 OBJECTIVE:

- The portal aims to provide complete technical information regarding the club activities and technical skills and development of the members.
- It can further be referred by alumni of the club in case they want to guide some particular students or need employees with relevant skills.
- The member profiles are maintained with complete background details, skills, projects and achievements. Moreover the members will be ranked on the basis of their coding profiles and projects and achievements, this would create a healthy competitive environment within the members of the society.
- Moreover, the dynamic resumes would ease their requirement of showcasing their resumes to recruiters and alumni.
- Additionally, the members would be able to share their interview experiences or guide the students on the basis of their experience by writing blogs which can be referred by the students of upcoming batches.

1.4 SCOPE:

- The project is scalable and can be used in real life by the members of the club.
- It is completely dynamic and hence can be used by any society/club and is not limited to Innogeeks.
- We are planning to make it Open source so that a contribution from everyone is welcomed. Also, it would groom the culture of open source on our campus.
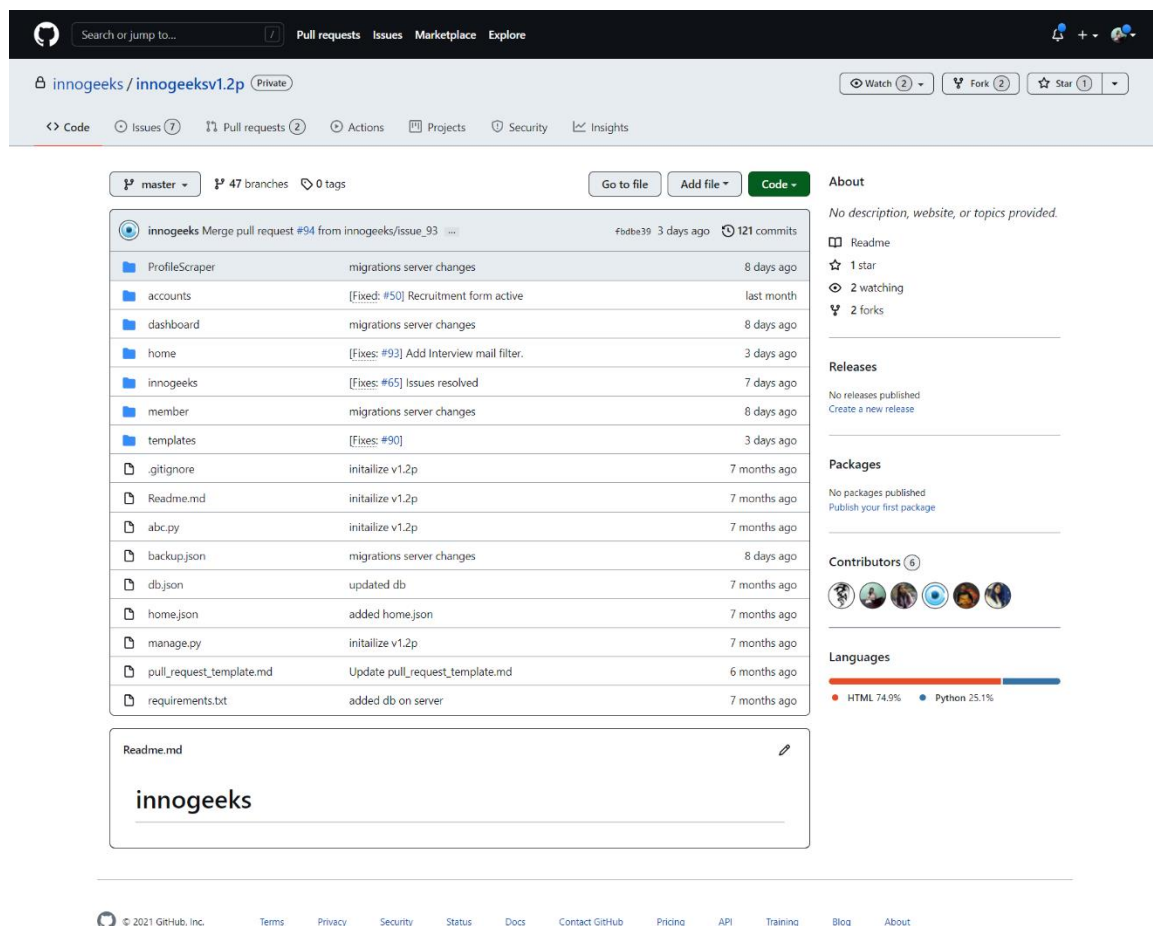
**Fig 1.5 Abstract View of GitHub repository to be made opensource**

CHAPTER 2
LITERATURE REVIEW

Research Paper	Authors	Conclusion
A LinkedIn Analysis of Career Paths of Information Systems Alumni	**Thomas L. Case** Georgia Southern University, tcase@georgiasouthern.edu **Adrian Gardiner** Georgia Southern University, agardine@georgiasouthern.edu **Paige Rutner** Georgia Southern University, prutner@georgiasouthern.edu **John N. Dyer** Georgia Southern University, jdyer@georgiasouthern.edu	It was shown that within five years of graduation, numerous program graduates migrate from more technically focused jobs to more business and management oriented positions, thus enabling them to leverage both business and technical knowledge. Additionally, it was shown that ten years following graduation majors migrated toward increasingly more responsible management positions
Linkedin As A Learning Tool In Business Education	**Brett Cooper,** Saint Peter's University, USA **Mary Kate Naatus,** Saint Peter's University, USA	By familiarizing students with LinkedIn and encouraging them to create strong professional profiles, it can help students differentiate and market themselves and grow their networks, which is a must in today's competitive job environment.
Discover LinkedIn Job Seeker's Commute Preference	**Dianxia Yang** dianxiay@stanford.edu	got good result to predict if a LinkedIn job seeker is willing to provide us information about their commute preference or not.

CHAPTER 3
PROPOSED METHODOLOGY

The website will be completely dynamic with a relational database with the following specifications:
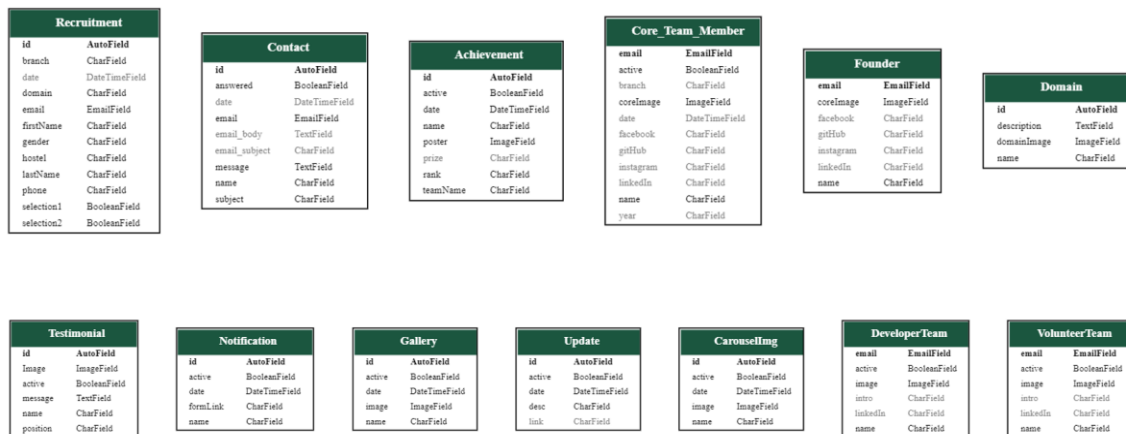
Fig 3.1 Model structure for public view

The above models will be a part of the public view and will contain the dynamic information to be displayed on the website. The information could be edited from the admin panel by the superuser.
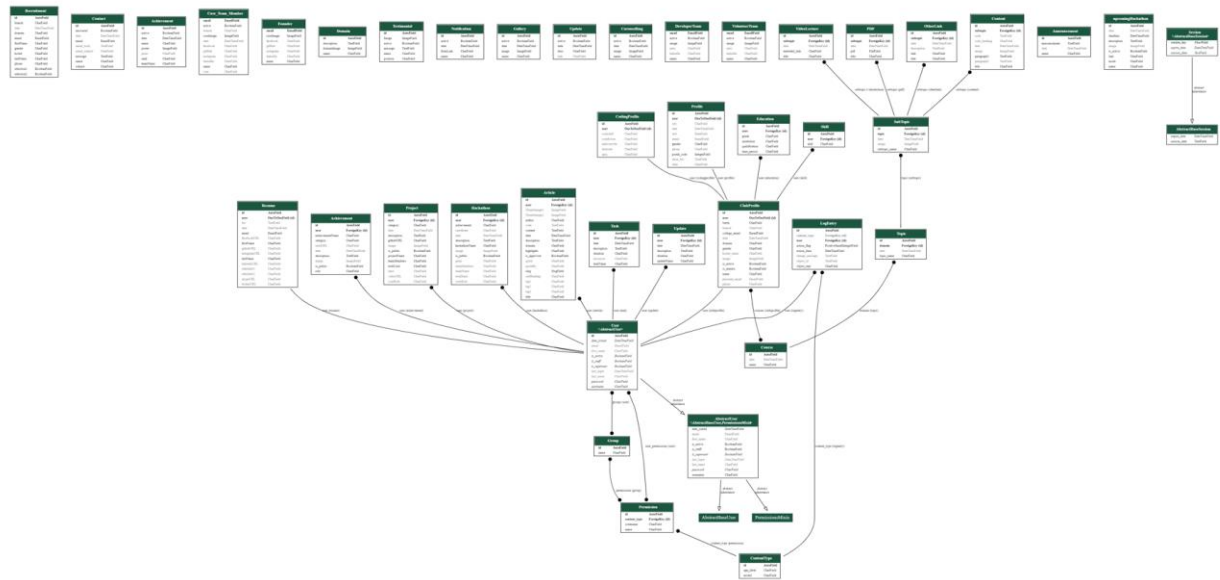
The models will contain details regarding:

- Club Recruitment
- Public Contact Form
- Club Achievements
- Core Team Members & Founders
- Domains provided
- Testimonials
- Updates & Notifications to be provided
- Gallery Images
- Developer & Volunteer Team

Fig 3.2 Model Structure for Member View- Part 1

The presented models will provide the mentioned resource which will be available only to the members of the club. These will also be added and updated from the admin panel by the superusers.

Fig 3.3 Model Structure for Member View- Part 2

The presented schema is for the member view the details will added, updated and removed by the members themselves. This data will contribute to their public profiles and resumes which will be visible to everyone.

The complete structure of the database would like this:

Fig 3.4 Model Structure for complete Database

The members will be granted access to the member vie4w only after their club profiles have been affirmed by the super user. To access any web page of member view except domain resources, existence of a club profile is mandatory.

Therefore, Club Profile serves as a foreign key to the following models:

- Profile
- Coding Profile
- Education
- Skill

CHAPTER 4
TECHNOLOGY USED

1. **Django:**
   Django is a Python-based free and open-source web framework that follows the model–template–views architectural pattern.

2. **SQLite3 / SQL DB:**
   SQLite is a self-contained, file-based SQL database. SQLite comes bundled with Python and can be used in any of your Python applications without having to install any additional software

3. **HTML/CSS/JS:**
   Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly.

4. **Amazon Web Services:**
   AWS provides servers, storage, networking, remote computing, email, mobile development, and security. AWS EC2 instance will be used to host the website.

CHAPTER 5
REQUIRED DIAGRAMS

ER Model for the expected Database:

Fig 5.1 Complete Database Structure

Fig 5.2 Procedure to access Member View

CHAPTER 6
CONCLUSION

The web portal will be beneficial for both the members of the club, as well as recruiters and alumni. It will provide relief to the students in presenting their resumes and portfolios and maintain a complete record of their projects and achievements.

Additionally, it will also create an atmosphere of healthy competition among the members of the club.

The members would display their projects which will be visible to everyone who visits the website. All of them will be able to like and comment on the project which would motivate the members for future work. It will be upto them to make the repository code available and accept contributions to make it open source or not. Overall, it will create a hub of projects and will motivate everyone for open-source contributions at a beginner level.

REFERENCES

[1] A LinkedIn Analysis of Career Paths of Information Systems Alumni - Thomas L. Case Georgia Southern University, tcase@georgiasouthern.edu Adrian Gardiner Georgia Southern University, agardine@georgiasouthern.edu Paige Rutner Georgia Southern University, prutner@georgiasouthern.edu John N. Dyer Georgia Southern University, jdyer@georgiasouthern.edu

[2] Linkedin As A Learning Tool In Business Education - Linkedin As A Learning Tool In Business Education

[3] Discover LinkedIn Job Seeker's Commute Preference - Dianxia Yang dianxiay@stanford.edu