

*(P-COMET)*

Team Name: Web development team

Team Members:

|  |  |  |
| --- | --- | --- |
| Student Name | Year of Study | Branch |
| Prashanth TK | 2nd | CSE |
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STUDENT NOKIA DEVELOPER

NOKIA LAB SUMMER INTERNSHIP

(8th June 2014 - 25th July 2014)



**PES Institute of Technology, Bangalore**

(Autonomous Institute under VTU, Belgaum)

100 feet Ring Road , BSK 3rd stage, Bangalore-560085



*(P-COMET)*



Manager : Mayank B A Lab Head : Dr. A. Srinivas

Signature : Signature :



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# PROJECT DESCRIPTION

The Web development team at Student Nokia Developer proudly presents the Project Connect Network, or P-Comet for short.

P-Comet is a social media website that is aimed at the student body. It is a portal where students can create and showcase their projects, as well as recruit other students from different regions or universities to be a part of their project.

The unique selling point of P-Comet is the feature of project recruitment, which no other application on the Internet currently has. Suppose a Computer Sc. student is working on a project that requires the expertise of a Biotechnology student or Electronics student. Once he has registered, it becomes very easy for him to find the right workforce to help him with his project.

A student’s profile on P-Comet can be used as a resume and portfolio.

# Scope Deliverables

## Project Deliverables

* Secure login with md5 encryption.
* Sign up for free.
* Option to login with your **google+** account.
* **Newsfeed** showing the latest projects.
* **Profile page** (with provision to add/edit details and profile picture).
* **Chat** functionality.
* Comprehensive **Search** function.
* Individual **Project Page** for each project (with detailed privacy settings) .
* **Recruit** and **Send Request** features.

# DESIGN

## User Interface Design

* Metro UI bootstrap is used under MIT's free license to give the main look and feel of our website.
* The google ajax apis used render faster page loads and smoother transitiions .
* Multiple ways to access the same options which gives an enhanced users' experience.

# Tools AND TECHNIQUES

## Frontend tools: *HTML5, CSS3, JavaScript, Metro UI CSS Bootstrap, Jquery 1.11.1*

## Backend tools: *php, Ajax, mysql*

# Implementation Notes

## Code Layout

* Dynamic search bar using ajax function.
* Jquery function $.ajax to retrieve JSON encoded details of the requested data from the server .
* $.foreach function to handle JSON array and dynamically display each entity.

**5.2 Function Descriptions**

5.2.1 Function Name: $.ajax

Input Parameters: request object – data

Functionality: sends the request to the server and gets the response in json.

5.2.2 Function Name:

Input Parameters: $.each

Functionality: gets multiple array encoded json array object .

Output: For each of the entites in the array dynamically generates the display .

And so on

**5.3 Build Process**

***Steps that went through in realizing this venture :***

1. ***Full fledged plan of the front end on data modeling sheets.***
2. ***Database schema design and indexing.***
3. ***Understanding the target audience's requistes and appropriate designing.***
4. ***Front end development and thorough testing.***
5. ***Database implementation.***
6. ***Back end development and simultaneous integration with the front end.***
7. ***Hours of testing and fixing bugs.***
8. ***Hosting the site online.***
9. ***Multi access and concurrency control testing.***

# Conclusion and Scope for Future Work

Achievements: Targeted specifics of the project have been posthumously achieved with all the functionalities being perfectly implemented.

Suggested scope for further improvisation:

* Improve the look and feel of the front end design by using light-weight and super fast Angular JS.
* Implement the database using robust and scalable Mongo DB.
* Using Facebook Oauth and Linkedin sign in for easy and authenticated registrations to the website.
* Implement privacy settings for project pages.
* Make project pages visible to guests (depending on privacy settings)
* Monetizing the website (suggestions include charging users to download projects and papers for their reference).
* Sign up MoUs with prominent universities across the country for better access for our clients to their ongoing projects and research.

The Nokia Internship program was a very enriching experience as it helped us all to grow in the technical field. We were always learning on the job, always running into (and solving) unexpected bugs, and always working hard to ensure we could meet the deadlines on time.

This experience has taught us to work as a team and collaborate to achieve a common goal, and has contributed to our individual growth as well. We are very thankful to have received this opportunity!