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2017 COS 301 Project User Manual



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1 Introduction

This is the user manual for installing and setting up the project management system for J3NS. This manual contains instructions on how to download and install the server and database. This manual will also give you a basic understanding for how to create new employees and create projects.

This manual will currently not show you how to use the entire system because the system is still in pre-alpha

2 Installation

2.1 Installing MongoDB

- Go to <https://www.mongodb.com/download-center#community> and download MongoDB for your respective operating system.
- Install MongoDB (It will probably be installed in ProgramFiles/Mongo)

2.2 Starting MongoDB

2.2.1 For Windows

- Open command prompt
- Type `cd /`
- Then navigate to the bin folder in the Mongo folder (usually is `cd C:/Program Files/MongoDB/Server/3.2/bin`)
- Type `mongod`. MongoDB will now be running.
- **Since our system is in pre-alpha we do not have an importable database as we are still doing testing and the database still contains dummy data therefore the DB you will be using is empty.**

2.3 Installing NodeJS

- Go to <https://nodejs.org/en/download/> and download NodeJS for your respective operating system.
- Install NodeJS

2.4 Installing dependencies

- Go to <https://github.com/Code9Developers/Back-End> and click on the **Clone or Download** button, then click download ZIP to download our repo.
- Unzip the repo and place it in a location that you would like to keep the system.
- Open command prompt (assuming windows) and navigate to the repo until you in the folder with the package.json
- Then type *npm install*. This will install all the packages required to run the system.

2.5 Starting the server

- After all the packages are installed, type *npm run dev*. This will start the server (assuming MongoDB is still running).
- The server will now let you now that it is connected to the database and you can access the website on port 4000.
- To access the website type *<https://code9devs.me/>*

3 Using the System

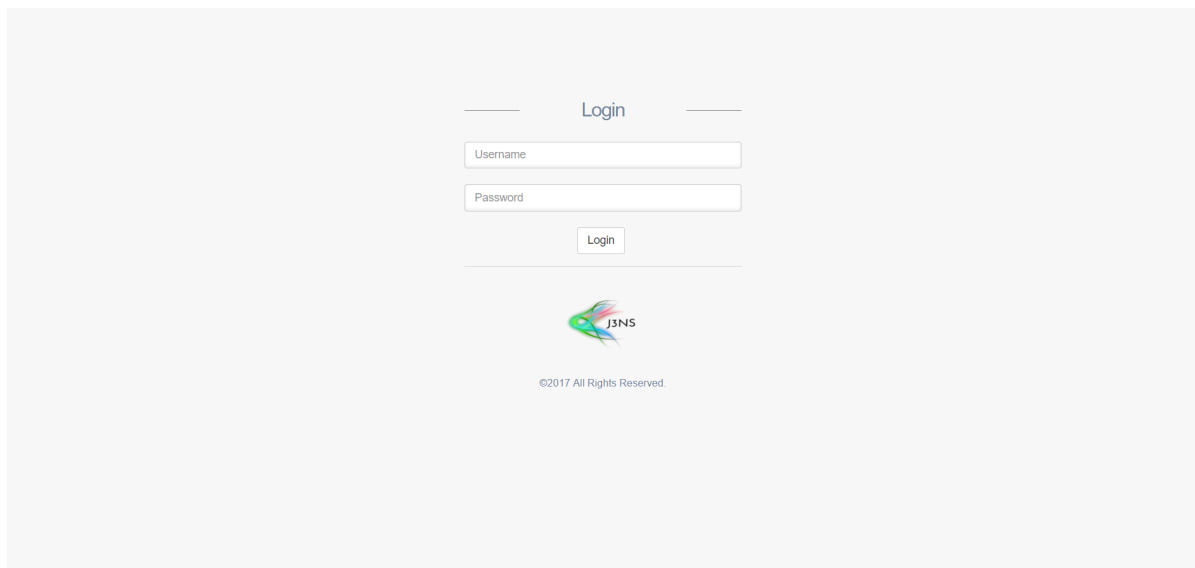
The system is currently still in development but the core functionality can still be used. **Note that the routing authentication has been turned off, this is due to testing purposes but the functionality is there**

3.1 Login page

1. Request type: POST
2. URL: <https://code9devs.me/login> or <https://code9devs.me/>

This is the login page where a manager, administrator or employee can login and will be routed to the relevant page. When the respective user logs in it will route to the respective page depending on that user's role.

1. Project Manager: Project creation page
2. Administrator: All employees page
3. Employee: User dashboard page



3.2 Admin pages(If an administrator logs in)

3.2.1 Admin Page

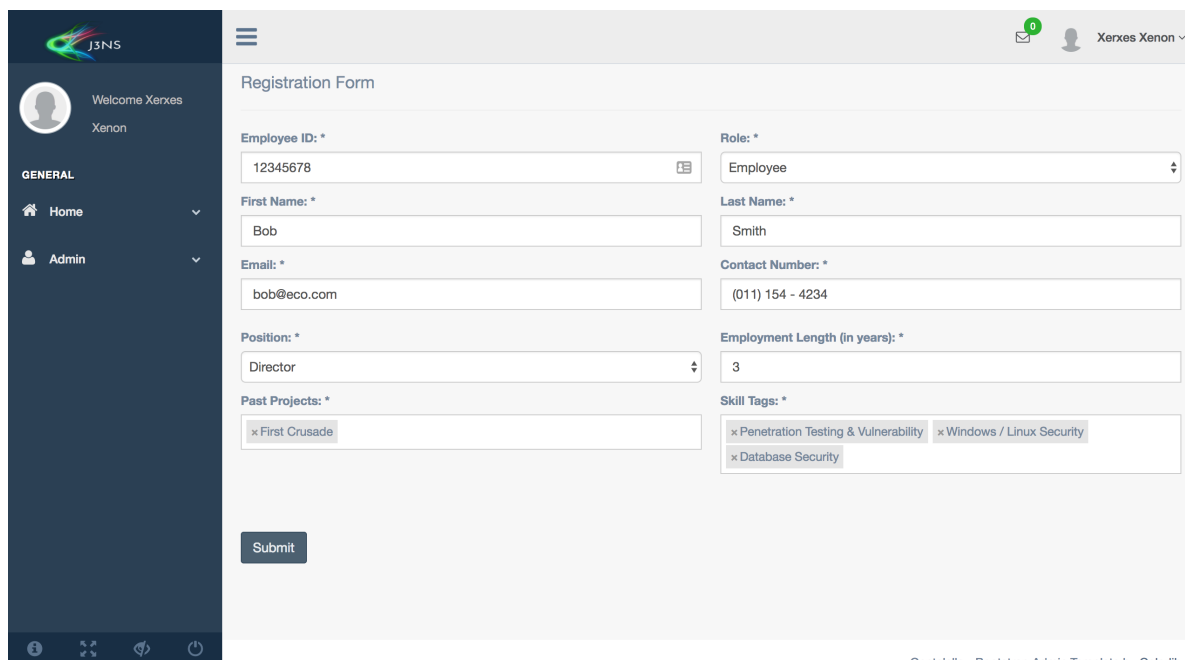
1. Request type: GET
2. URL: <https://code9devs.me/admin>

Description

On this page an Admin user will be allowed to create a new employee with all the relevant information. Once submit button is clicked a POST request will be sent to the server, the employee will then be stored in the users collection in the database. When you click on the submit button it will create the project and then route the logged in user to the employees page which will display all employees on the J3NS system.

Functions

On this page when the submit button is clicked it will send a request to store all the information in the page. The employee that is created will then be stored in the database and now can be assigned to a project. After that the page will then route to the employees page (<https://code9devs.me/employees>) which will display all employees that are registered.



The screenshot shows a web application interface for J3NS. On the left is a dark sidebar with a logo, a user profile for 'Xerxes Xenon', and a 'GENERAL' menu with 'Home' and 'Admin' options. The main content area is titled 'Registration Form'. It contains several input fields: 'Employee ID' (12345678), 'Role' (Employee), 'First Name' (Bob), 'Last Name' (Smith), 'Email' (bob@eco.com), 'Contact Number' ((011) 154 - 4234), 'Position' (Director), and 'Employment Length (in years)' (3). There are also 'Past Projects' and 'Skill Tags' sections. 'Past Projects' has a tag 'First Crusade'. 'Skill Tags' has three tags: 'Penetration Testing & Vulnerability', 'Windows / Linux Security', and 'Database Security'. A 'Submit' button is at the bottom left of the form. The top right of the page shows a notification icon with '0' and a user profile for 'Xerxes Xenon'.

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3.2.2 Employees Page

1. Request type: GET
2. URL: <https://code9devs.me/employees>

Description

This page displays all the registered employees on the system.

Functions

When the page loads it will call a function to get all the employee that are currently stored on the system. The administrator can click the view button and it will then route to the employees profile page where all the employees information can be seen.

All Employees

View of all employees currently registered on the project management system

#	Name	Email	Position	Employment Length	Options
#	Rupert aldridge	Rupert.aldridge@gmail.com	Junior Analyst 2	4	View Delete
#	Elane alexander	Elane.alexander@gmail.com	Junior Analyst 1	4	View Delete
#	Johnathan alford	Johnathan.alford@gmail.com	Senior Analyst	2	View Delete
#	Anisha algate	Anisha.algate@gmail.com	Analyst	3	View Delete
#	Velia alger	Velia.alger@gmail.com	Senior Analyst	3	View Delete
#	Pamella alison	Pamella.alison@gmail.com	Senior Analyst	4	View Delete
#	Linn alkrington	Linn.alkrington@gmail.com	Analyst	1	View Delete
#	Fernanda allan	Fernanda.allan@gmail.com	Junior Analyst 1	3	View Delete
#	Evia allanby	Evia.allanby@gmail.com	Analyst	4	View Delete
#	Verda allard	Verda.allard@gmail.com	Junior Analyst 2	4	View Delete
#	Anton allason	Anton.allason@gmail.com	Junior Analyst 2	1	View Delete

★ **Code 9** ☁ To: code9devs@gmail.com... 2017/10/12, 12:29

Welcome Jake Paul
 User name is: **88888888**
 Your password is: **hOoa**

3.2.3 Training Page

1. Request type: GET
2. URL: <https://code9devs.me/training>

Description

Admin creates training events for employees so that employees can gain project experience and advance their skills.

Functions

Admin will create a training event where they have to enter the trainers details, the start and end date of the training event and the employees. Once this is created, all the relevant employees will be notified.

Training

Trainer's Name: *

Start Date: *

Trainer's Email: *

End Date: *

Trainer's Phone Number: *

All Employees

Show entries Search:

<input type="checkbox"/>	Name	Surname	Position	Employment Length	Email
<input type="checkbox"/>	Adalberto	askin	Junior Analyst 2	3	Adalberto.askin@gmail.com
<input type="checkbox"/>	Adam	batt	Junior Analyst 1	4	Adam.batt@gmail.com
<input type="checkbox"/>	Adria	benham	Junior Analyst 1	2	Adria.benham@gmail.com
<input type="checkbox"/>	Adrianna	allix	Analyst	3	Adrianna.allix@gmail.com
<input type="checkbox"/>	Aida	belcher	Senior Analyst	2	Aida.belcher@gmail.com
<input type="checkbox"/>	Akiko	battle	Junior Analyst 2	2	Akiko.battle@gmail.com
<input type="checkbox"/>	Alesha	bener	Junior Analyst 1	2	Alesha.bener@gmail.com

★ **Code 9** ☁️ ✓ Dear Jake Paul please note you have training from... 2017/10/12, 12:30

Dear **Jake Paul** please note you have training from the **Fri Oct 13 2017 00:00:00 GMT+0000 (UTC)** to the **Sun Oct 15 2017 00:00:00 GMT+0000 (UTC)**.
If you have any questions please contact **Grace**: code9devs@gmail.com or [\(098\) 765 - 4354](tel:(098)765-4354)

3.3 Manager pages (If a project manager logs in)

3.3.1 Project Creation Page


1. Request type: GET
2. URL: https://code9devs.me/project_creation

Description

On this page a manager can create the project. The manager will be required to enter all information relevant to the project. The manager will also have to select the number of employees that is required for the project. When the allocate employees button is clicked, the algorithm will then return the best suited employees for the project after taking many factors into account. The manager can then choose to remove employees from the project but this will have to go through the chain of command to get approved. After all the information is entered and the employees are selected. A POST request will then be sent to the server to store all the information in the database. After all the information is store the user will then be routed to the project view page where he/she can view all information regarding the project as well as insert information regarding the project.

Functions

On this page when the manager clicks on the assign employees button a request for employees will be sent to the server. The server will then call the resource allocation algorithm to get the best suited employees and then return and display in the table.



Welcome Sargon David

GENERAL

Home

Admin

New Project

Create a new project

Project Name: *

Project Date: *
Start Date: *

End Date: *

Project Description (minimum of 20 characters, max of 150) : *

Skill Tags: *

Penetration Testing and Vulnerability

Scanning (Nessus and Qualys)

Windows / Linux Security

Database Security

Strategic Management

Regulatory Compliance

Risk Management

Employee Allocation: *

No. Assistant Manager: *

No. Analyst: *

No. Supervisor: *

No. Junior Analyst 1: *

No. Senior Analyst: *

No. Junior Analyst 2: *

Allocate Employees

Allocated Employees

Below are the pre-selected employees that would best fit this project. Please select the employees you wish to replace and provide a reason for the replacement.

Show entries Search:

x	Name	Surname	Position	Employment Length	Skill
<input type="checkbox"/>	Chanda	bayer	Senior Analyst	4	Risk Management
<input type="checkbox"/>	Cliff	bennett	Senior Analyst	2	Penetration Testing and Vulnerability
<input type="checkbox"/>	Nikita	andriesen	Senior Analyst	4	Scanning (Nessus and Qualys)
<input type="checkbox"/>	Roma	bell or hamilton	Senior Analyst	3	Strategic Management
<input type="checkbox"/>	Rosalee	barton	Senior Analyst	4	Windows / Linux Security
<input type="checkbox"/>	Solomon	bellamy	Senior Analyst	4	Regulatory Compliance
<input type="checkbox"/>	Vanita	beck	Analyst	4	Database Security

Showing 1 to 7 of 7 entries

Previous 1 Next

Get Replacements

Project Owner: *

Project Owner Email: *

Contact Number: *

☆ Code 9 ☁️ ▼ To: code9devs@gmail.co... 2017/09/26, 16:26

Ptolemy Smith you have been assigned to the **P1** project.

3.3.2 Projects Page

1. Request type: GET
2. URL: <https://code9devs.me/projects>

Description

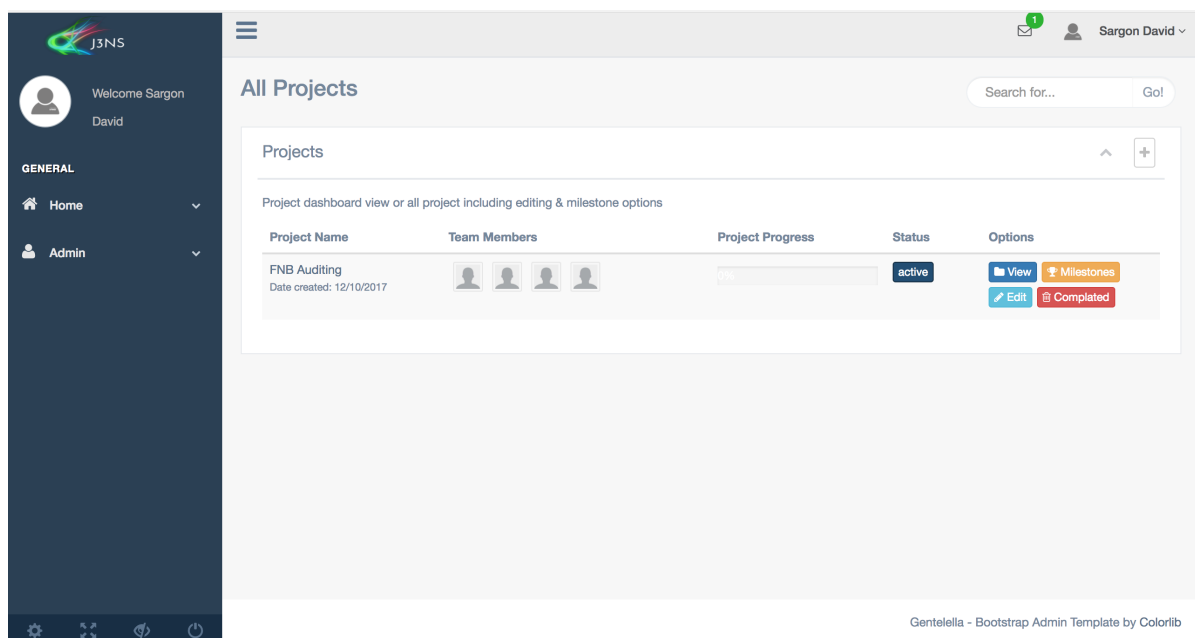
Code 9

Page 9

This page displays all the projects that are currently active. From this page a project manager will be able to view the active projects as well as some brief details about the project such as date created and project start date. At the far left of the page there are four buttons, each button routes to the page to do the functionality described by the button.

Functions

1. **Click View Button**- When this button is clicked it will send a GET request to the server to display the project view page of the project that was clicked (It sends the project ID in the get request so it only displays the appropriate project.)
2. **Click Milestones Button**- This button will route the manager to the milestones page where the manager can add milestones to the project.
3. **Click Edit Button**- This page will route the manager to the project edit page where the manager can edit parts of the project.



3.3.3 Projects View

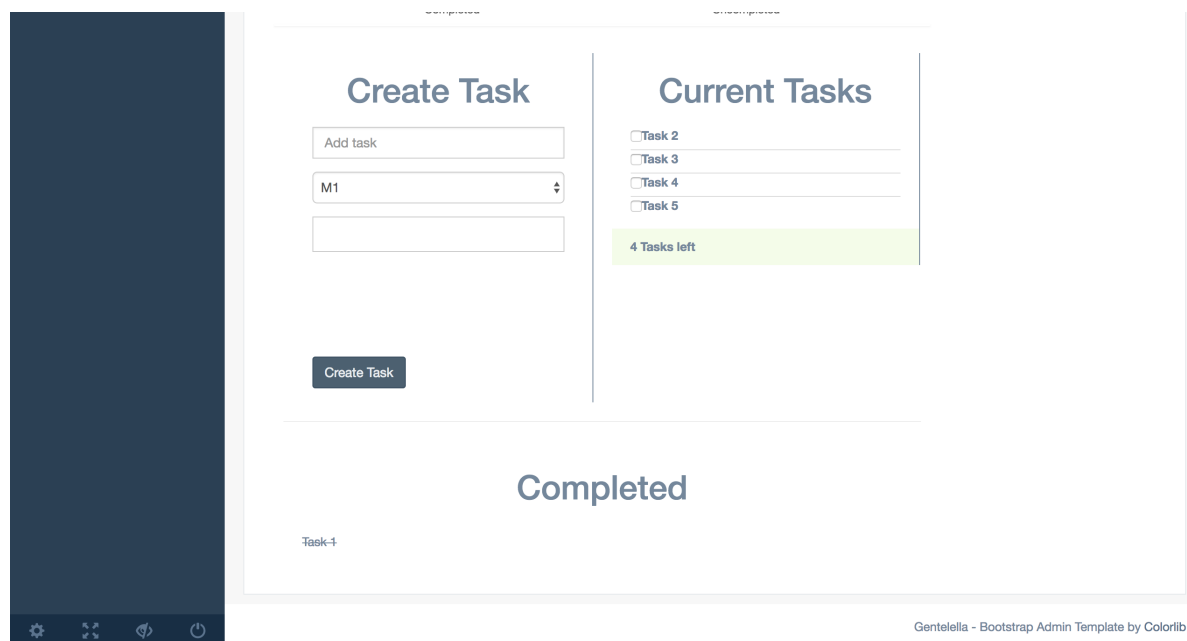
1. Request type: GET
2. URL: https://code9devs.me/project_detail

Description

This page displays all information about the project. The project manager can all create tasks at the bottom of the page. A manager can create a task assign it to a milestone and also assign it to multiple employees to finish. When a task is created an employee will get notified. When the task is complete the manager can check it and it will move to the complete list.

Functions

1. Allow manager to create task. This request will be sent to the server where the task and all relevant details associated with the task will get stored in the database, after that is done notifications will be created and relevant parties will be notified.



3.3.4 Project Review

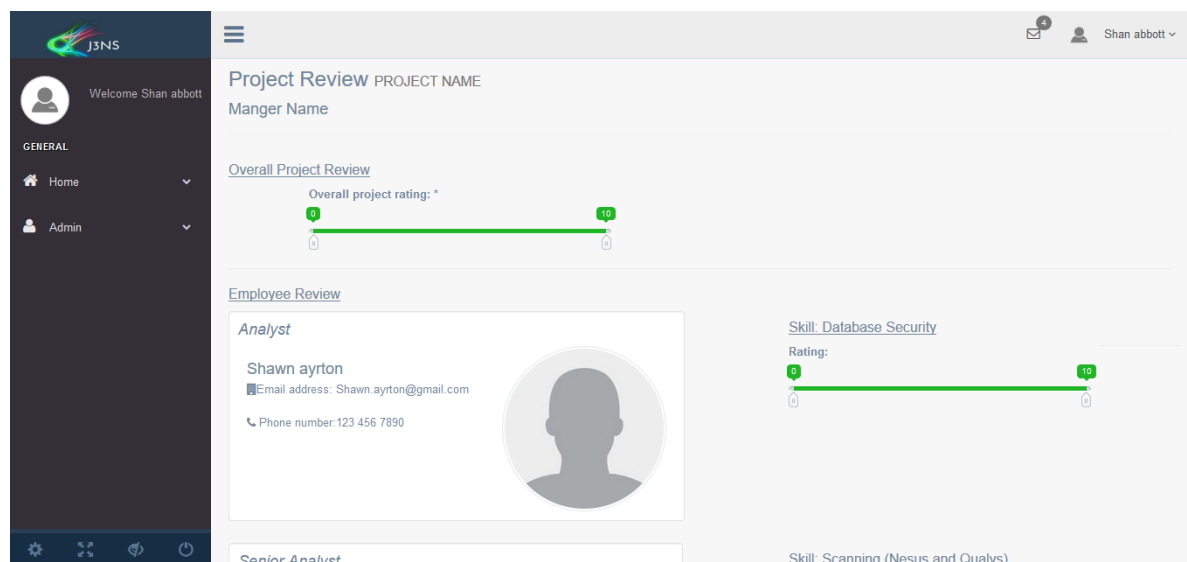
1. Request type: GET
2. URL: https://code9devs.me/project_review

Description

This page requires the manager to rate the project as well as rating each employee who was involved in the project.

Functions

1. Allow manager to give the project an overall rating on a scale of 1 to 10 and rate each employee who was involved on a scale of 1 to 10. All the details will be stored in a database.



3.3.5 Projects Edit Page

1. Request type: GET
2. URL: https://code9devs.me/project_edit

Description

This page will allow the manager to edit the current projects deadline if needed and also remove and reassign employees if ever needed.

Functions

1. Request will be send to server that will update the project end date on the database.
2. If an employee is selected to be removed, another employee of equal skill will be found.

	Name	Surname	Position	Employment Length	Email
<input type="checkbox"/>	Beulah	atchison	Senior Analyst	3	Beulah.atchison@gmail.com
<input type="checkbox"/>	Keturah	baines	Analyst	4	Keturah.baines@gmail.com

☆ Code 9 ☁️ ▼ To: code9devs@gmail.com... 2017/10/12, 13:52 💬 ↶ ↷ ↲ ↳ ▼

Sargon David requests a change of employee for the **"Green"** project.

3.3.6 Milestones Page

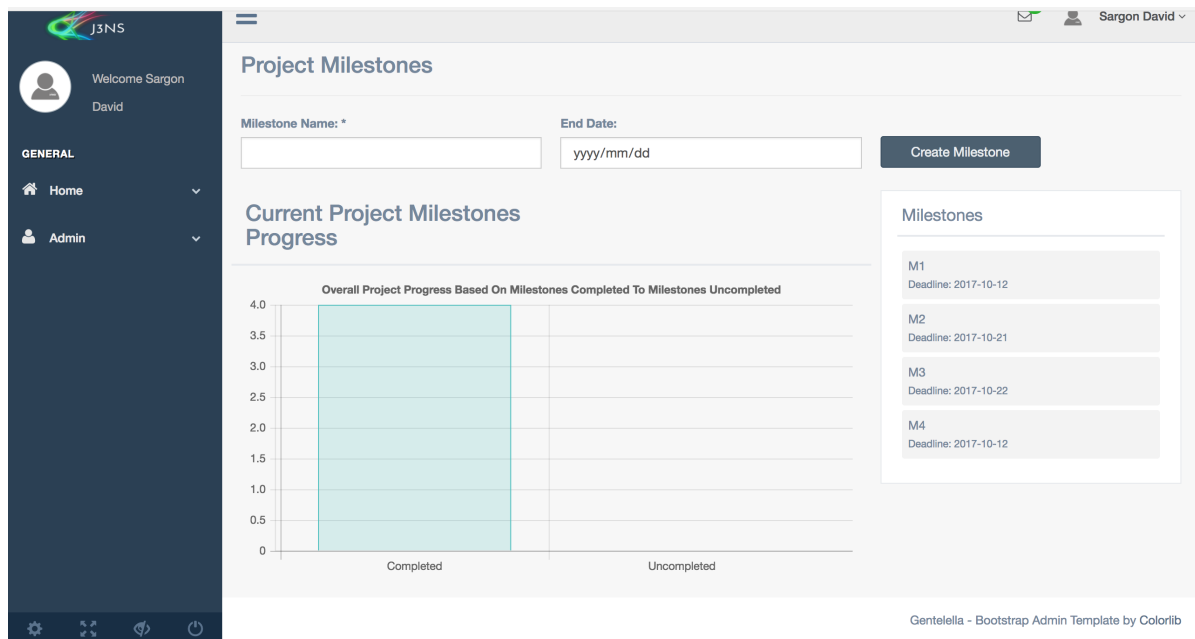
1. Request type: GET
2. URL: https://code9devs.me/project_milestone

Description

This page will allow a project manager to create a new milestone for the project and give it the deadline date.

Functions

1. Request will be sent to server to store new milestone in database
2. Now manager can assign tasks and employees to that milestone.



3.4 Employee pages (If an employee logs in)

3.4.1 Employee Profile

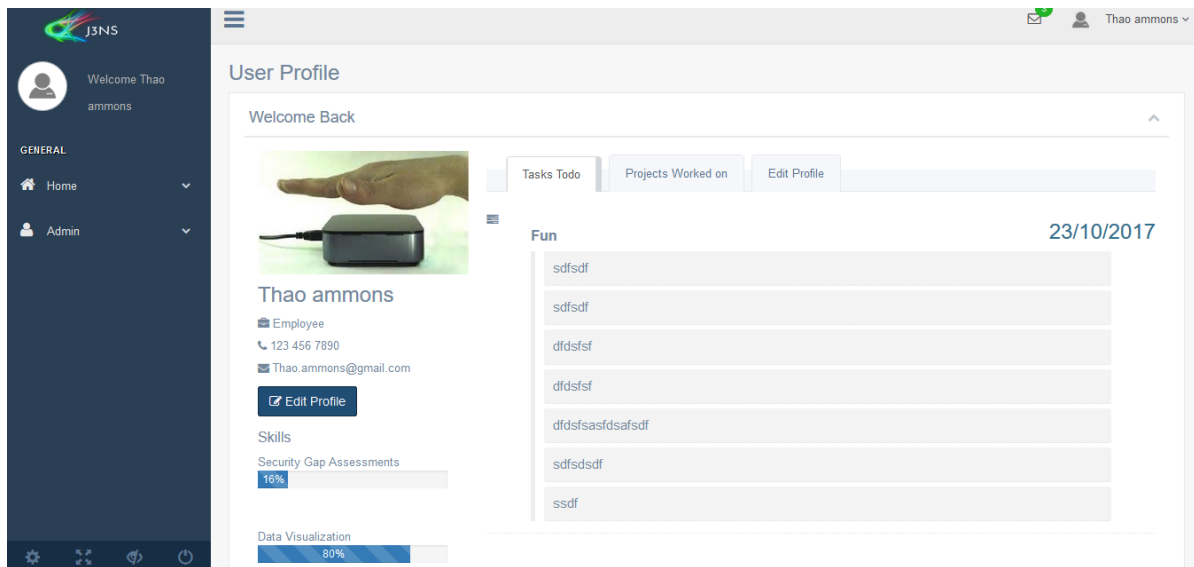
1. Request type: GET
2. URL: https://code9devs.me/employee_profile

Description

This page displays all the tasks that the employee currently has, the projects the employee has worked on and it allows an employee to edit their profile. It also shows the skills of the employee.

Functions

1. Displays tasks of the employee as well as the skills.
2. Allows user to edit their profile.
3. Shows the projects that the employee has worked on
4. Shows the employees details.



3.4.2 Employee dashboard

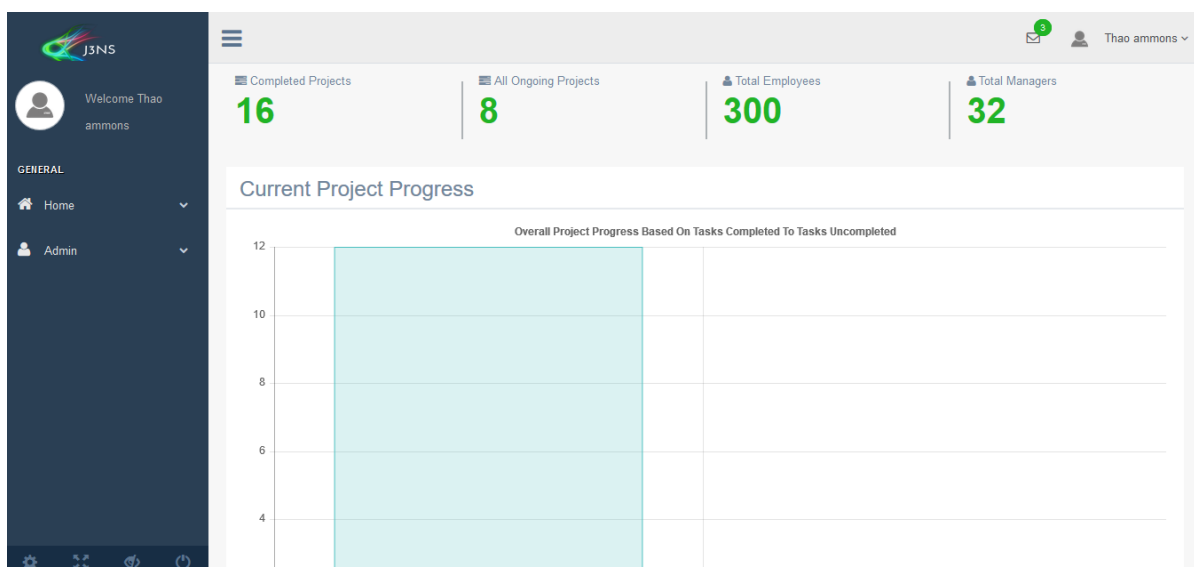
1. Request type: GET
2. URL: https://code9devs.me/user_dashboard

Description

This page displays a brief overview of the employee's projects and also some analytic data regarding the current employees project.

Functions

1. GET request to get the project data



3.4.3 Employee calendar page

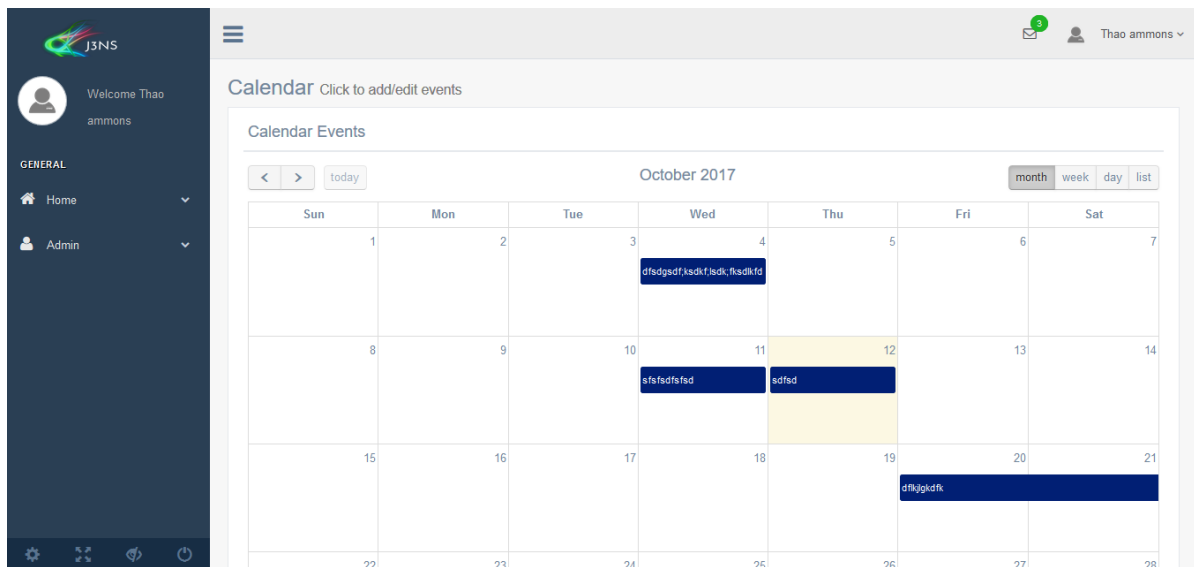
1. Request type: GET
2. URL: <https://code9devs.me/calendar>

Description

Will display all the events the employee has. Project events and personal events.

Functions

1. The employee can also click on a day and create an event (as long as that event does not conflict with the project.)



3.5 Director pages (If a Director logs in)

3.5.1 Director dashboard

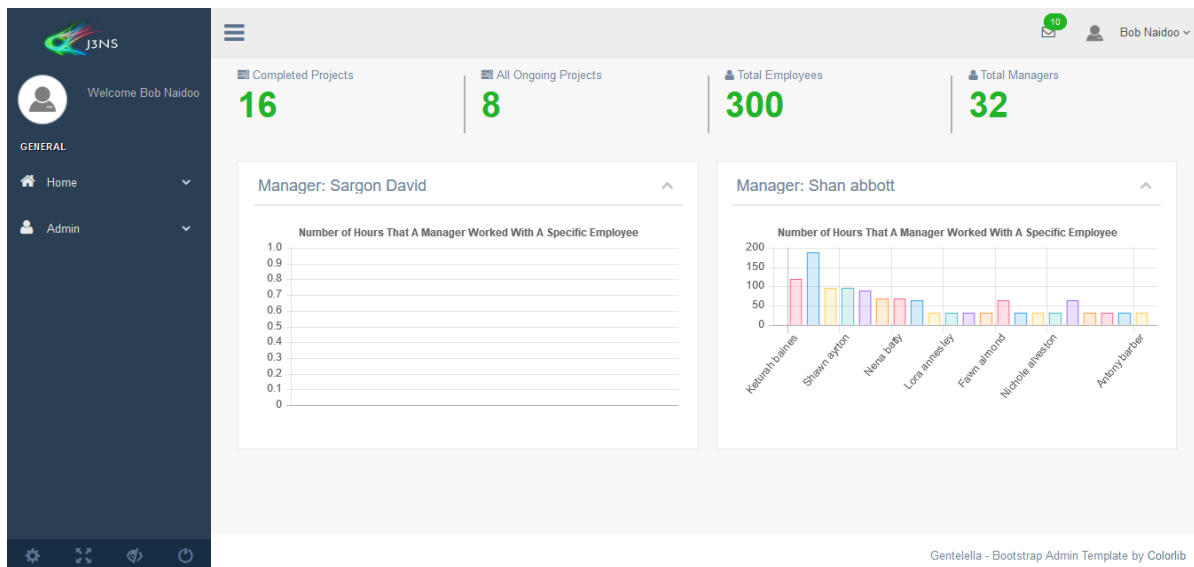
1. Request type: GET
2. URL: https://code9devs.me/user_dashboard

Description

This page displays a brief overview of the director's projects and also some analytic data regarding the current director's project. Each project manager will also have graphs of the total number of hours that the project manager worked with a specific employee.

Functions

1. GET request to get the project data



3.5.2 Director calendar page

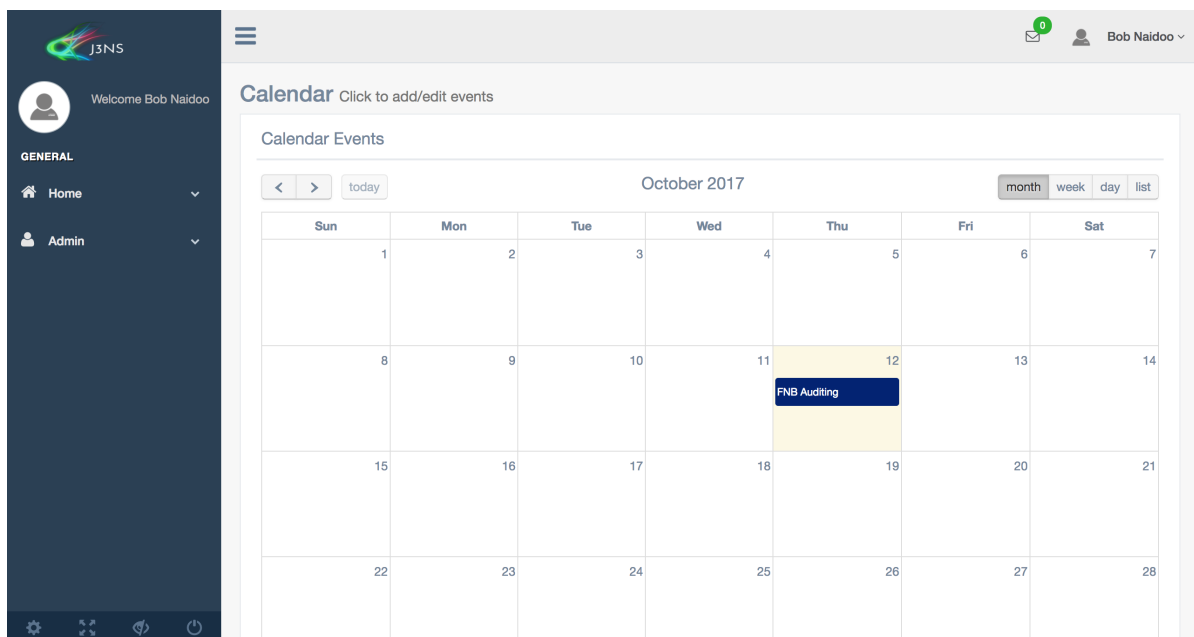
1. Request type: GET
2. URL: <https://code9devs.me/calendar>

Description

This page will display all the events the director has such as project events and personal events.

Functions

1. The director can also click on a day and create an event(as long as that event does not conflict with the project.)



3.5.3 Projects view page

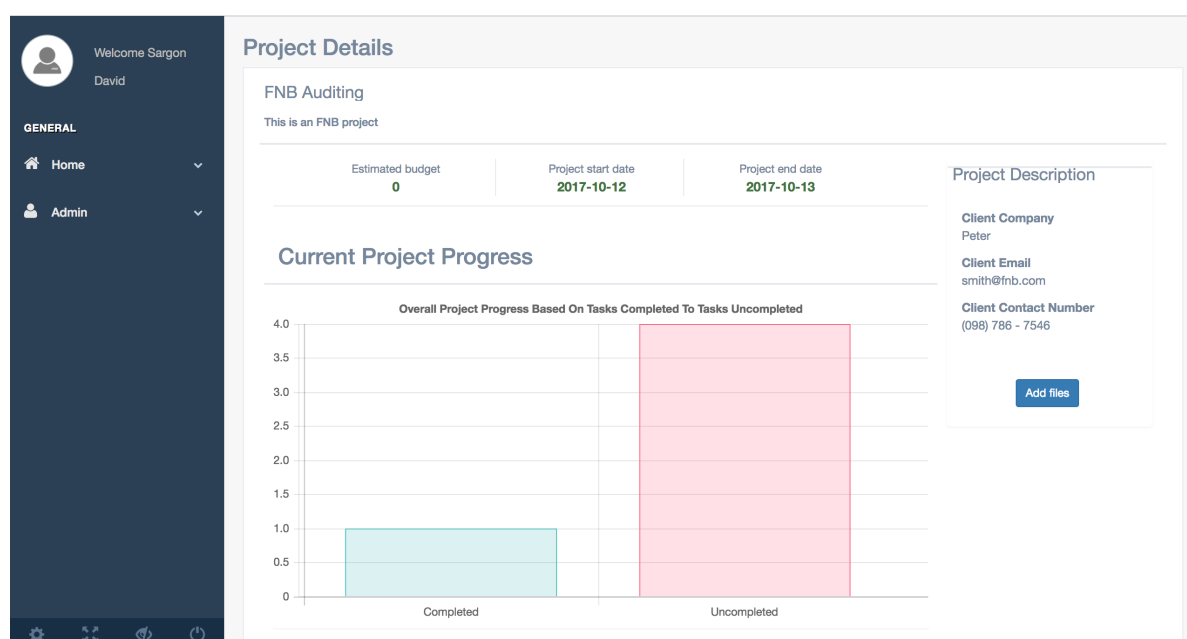
1. Request type: GET
2. URL: https://code9devs.me/projects_view

Description

This page will display the overall details of a project as well as a graph of the task to be completed and tasks that must still be completed.

Functions

Displays all the details of the project as well a graph of the tasks that have been completed as well as the tasks to be completed.



3.5.4 Director approvals page

1. Request type: GET
2. URL: https://code9devs.me/director_approvals

Description

Displays all projects that need approval for replacement of employees.

Functions

Displays all projects that need approvals. The director can click the view button in order to view the project that needs an approval.

