

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.

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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.

User Manual Last revised: 12 October 2017

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 locally

- 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://localhost:4000

2.6 Starting the server online

- Visit: Code 9 https://code9devs.me/
- Follow our virtual demo: Virtual Demo Doc.pdf.

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

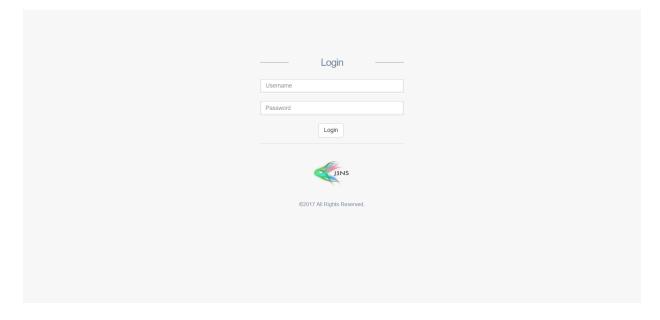
2. URL: https://code9devs.me/login or https://code9devs.me/

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 users 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

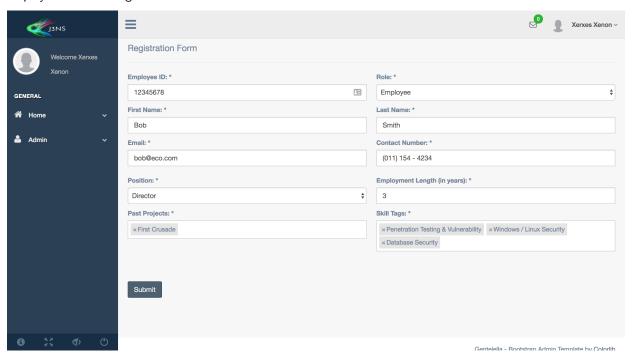
Description

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.



3.2.2 Employees Page

1. Request type: GET

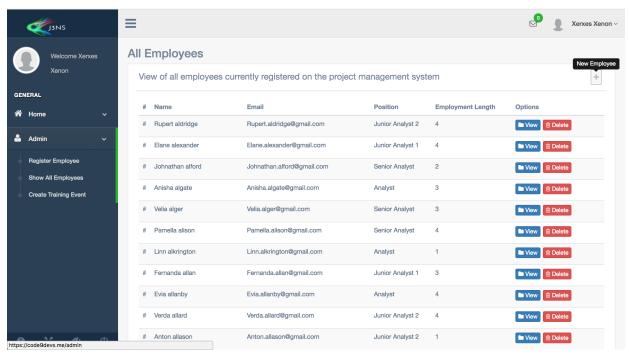
2. URL:https://code9devs.me/employees

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.







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

3.2.3 Training Page

1. Request type: GET

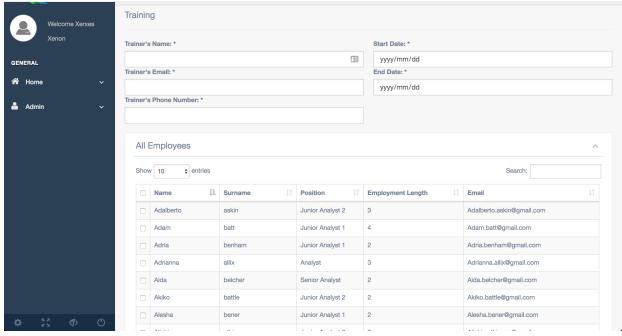
2. URL:https://code9devs.me/training

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.



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 <u>Fri Oct 13 2017</u> 00:00:00 GMT+0000 (UTC) to the <u>Sun Oct 15 2017 00:00:00 GMT+0000 (UTC)</u>. If you have any questions please contact **Grace**: <u>code9devs@gmail.com</u> or (098) 765 - 4354

3.3 Manager pages (If a project manager logs in)

3.3.1 Project Creation Page

1. Request type: GET

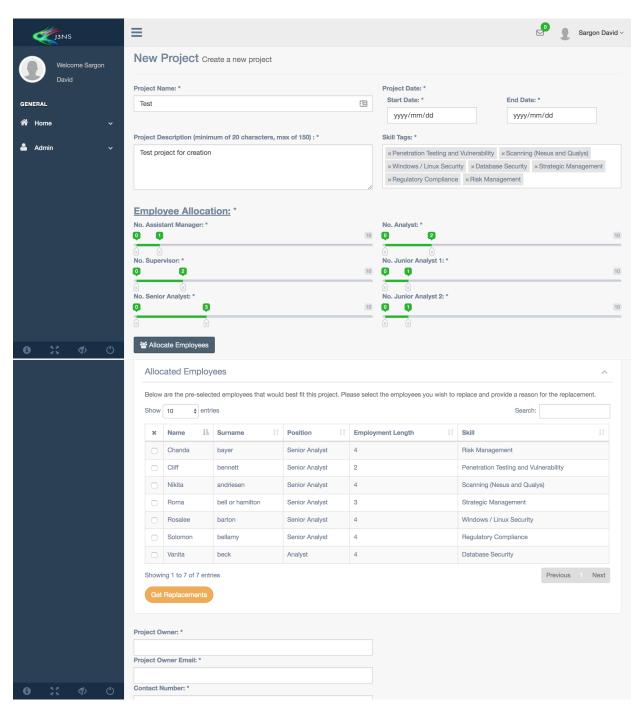
2. URL: https://code9devs.me/project_creation

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.



Ptolemy Smith you have been assigned to the P1 project.

3.3.2 Projects Page

1. Request type: GET

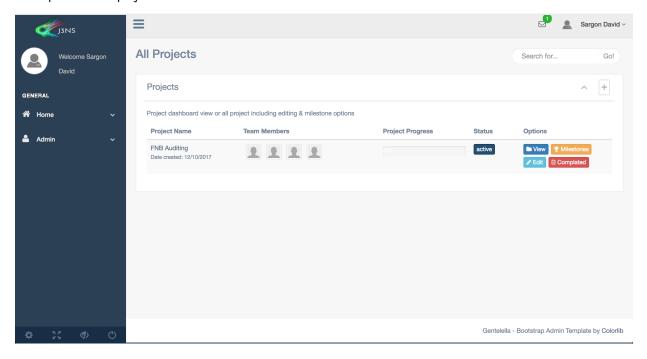
2. URL: https://code9devs.me/projects

Description

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 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

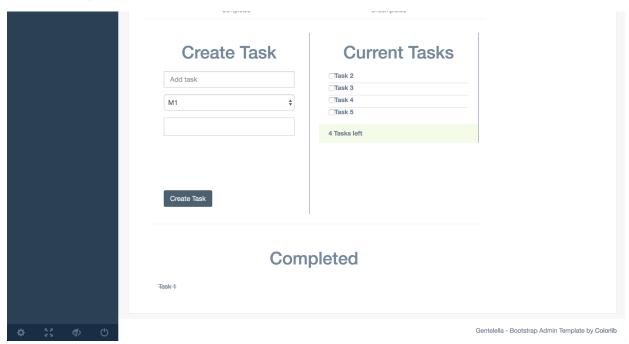
2. URL: https://code9devs.me/project_detail

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 as 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

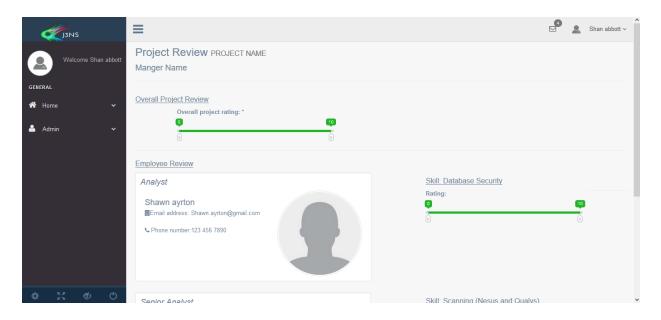
2. URL: https://code9devs.me/project_review

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 to 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

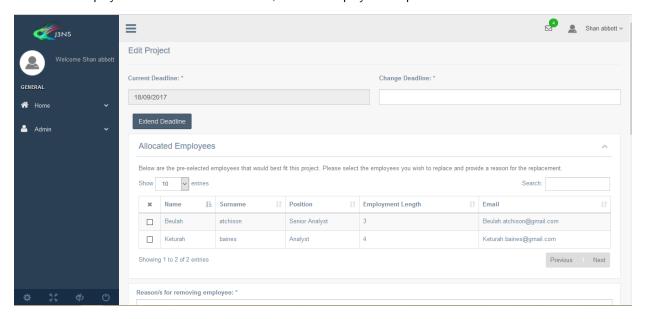
2. URL: https://code9devs.me/project_edit

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.



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

3.3.6 Milestones Page

1. Request type: GET

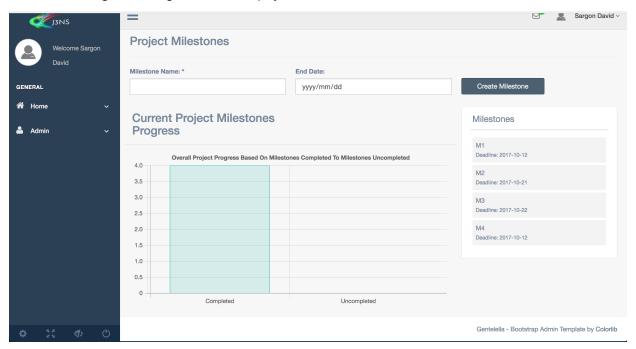
2. URL: https://code9devs.me/project_milestone

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.



Employee pages (If an employee logs in)

3.4.1 Employee Profile

1. Request type: GET

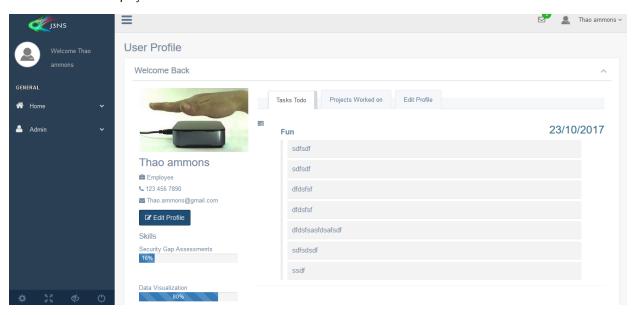
2. URL: https://code9devs.me/employee_profile

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

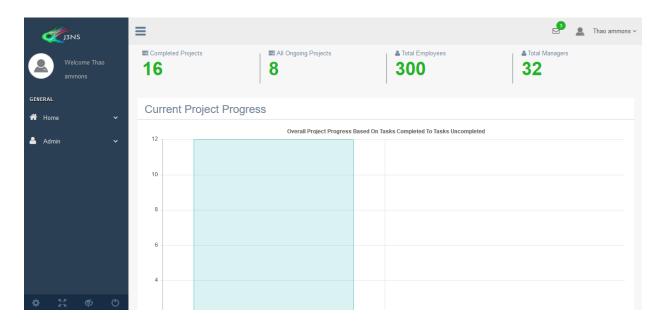
- 1. Request type: GET
- 2. URL: https://code9devs.me/user_dashboard

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

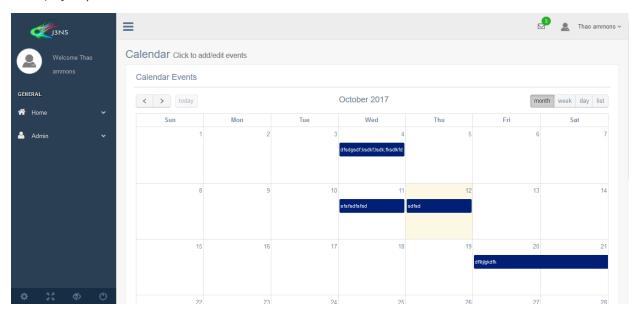
2. URL: https://code9devs.me/calendar

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

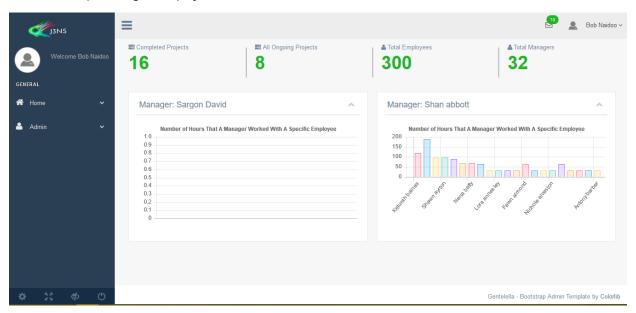
2. URL: https://code9devs.me/user_dashboard

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

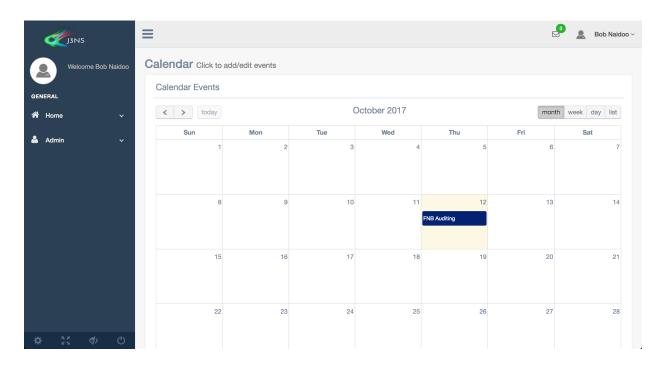
2. URL: https://code9devs.me/calendar

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

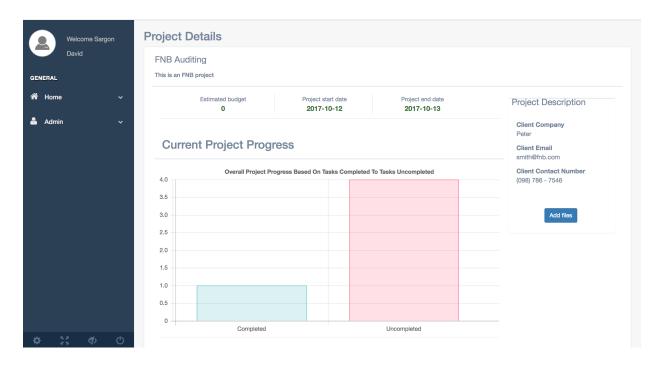
2. URL: https://code9devs.me/projects_view

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.

