

# DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

## PANJAB UNIVERSITY CHANDIGARH



SESSION: 2021-2023



Project report of java project Ninja.

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DCSA, PU

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**Project Title:**

NINJA - Bug Tracking Tool

**Project Description:**

In this project, we implement a web application to track and monitor project development life cycle and the tracking of bugs. We have used MySql Data base, JSP, HTML, CSS, Java Script. The NetBeans IDE is used to create the Project.

**Database Design:**

For maintaining records we need a database; for that we create a database named "ninja" in our MySql server and created some tables.

--

--Create table bug start

--

```
CREATE TABLE `bug` (  
  `id` int(100) NOT NULL,  
  `name` varchar(100) NOT NULL,  
  `detail` varchar(1000) NOT NULL,  
  `register_date` date NOT NULL,  
  `solve_date` date NOT NULL,  
  `status` varchar(100) NOT NULL,  
  `comment` varchar(1000) NOT NULL,  
  `project_id` int(100) NOT NULL,  
  `priority` int(1) NOT NULL,  
  `assigned_by` int(11) NOT NULL,
```

```
`assigned_to` int(11) NOT NULL,  
`assigned_date` date NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
  
--  
  
--Create table bug ends  
  
--Create table project starts  
  
--  
  
CREATE TABLE `project` (  
  `id` int(100) NOT NULL,  
  `name` varchar(100) NOT NULL,  
  `end_date` date NOT NULL,  
  `priority` int(10) NOT NULL,  
  `tech` varchar(300) NOT NULL,  
  `phase` varchar(100) NOT NULL,  
  `start_date` date NOT NULL,  
  `details` varchar(9999) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
  
--  
  
--Create table project ends  
  
--Create table role start  
  
--  
  
CREATE TABLE `role` (  
  `id` int(100) NOT NULL,  
  `name` varchar(100) NOT NULL
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
--
```

```
--Create table role ends
```

```
--Create table user start
```

```
--
```

```
CREATE TABLE `user` (
```

```
  `id` int(100) NOT NULL,
```

```
  `name` varchar(100) NOT NULL,
```

```
  `email` varchar(100) NOT NULL,
```

```
  `password` varchar(200) NOT NULL,
```

```
  `roleid` int(100) NOT NULL,
```

```
  `phone` varchar(20) NOT NULL,
```

```
  `emp_code` varchar(20) NOT NULL,
```

```
  `emp_designation` varchar(30) NOT NULL,
```

```
  `joining_date` date NOT NULL,
```

```
  `active` varchar(1) NOT NULL
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
--
```

```
--Create table user ends
```

```
--
```

```
-- Indexes for table `bug`
```

```
--
```

```
ALTER TABLE `bug`
```

```
  ADD PRIMARY KEY (`id`),
```

```
ADD KEY `project_id` (`project_id`);

--

-- Indexes for table `project`

--

ALTER TABLE `project`

ADD PRIMARY KEY (`id`);

--

-- Indexes for table `role`

--

ALTER TABLE `role`

ADD PRIMARY KEY (`id`);

--

-- Indexes for table `user`

--

ALTER TABLE `user`

ADD PRIMARY KEY (`id`),

ADD UNIQUE KEY `email` (`email`),

ADD UNIQUE KEY `emp_code` (`emp_code`),

ADD UNIQUE KEY `phone` (`phone`),

ADD KEY `roleid` (`roleid`);

--

-- AUTO_INCREMENT for dumped tables

--

--
```

```
-- AUTO_INCREMENT for table `bug`

--

ALTER TABLE `bug`

  MODIFY `id` int(100) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;

--

-- AUTO_INCREMENT for table `project`

--

ALTER TABLE `project`

  MODIFY `id` int(100) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;

--

-- AUTO_INCREMENT for table `role`

--

ALTER TABLE `role`

  MODIFY `id` int(100) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;

--

-- AUTO_INCREMENT for table `user`

--

ALTER TABLE `user`

  MODIFY `id` int(100) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=10;

--

-- Constraints for dumped tables

--

--

-- Constraints for table `bug`
```

--

ALTER TABLE `bug`

ADD CONSTRAINT `bug\_ibfk\_1` FOREIGN KEY (`project\_id`) REFERENCES `project` (`id`);

--

-- Constraints for table `user`

--

ALTER TABLE `user`

ADD CONSTRAINT `user\_ibfk\_1` FOREIGN KEY (`roleid`) REFERENCES `role` (`id`) ON UPDATE NO ACTION;

COMMIT;

**The following SQL will insert some rows in it:**

INSERT INTO `role` (`id`, `name`) VALUES

(1, 'admin'),

(2, 'project\_manager'),

(3, 'software\_engineer');

INSERT INTO `user` (`id`, `name`, `email`, `password`, `roleid`, `phone`, `emp\_code`,  
`emp\_designation`, `joining\_date`, `active`) VALUES

(1, 'Shikhar', 'shikhar@gmail.com', 'admin', 1, '9422467205', 'abc', 'admin', '2022-05-01', '1'),

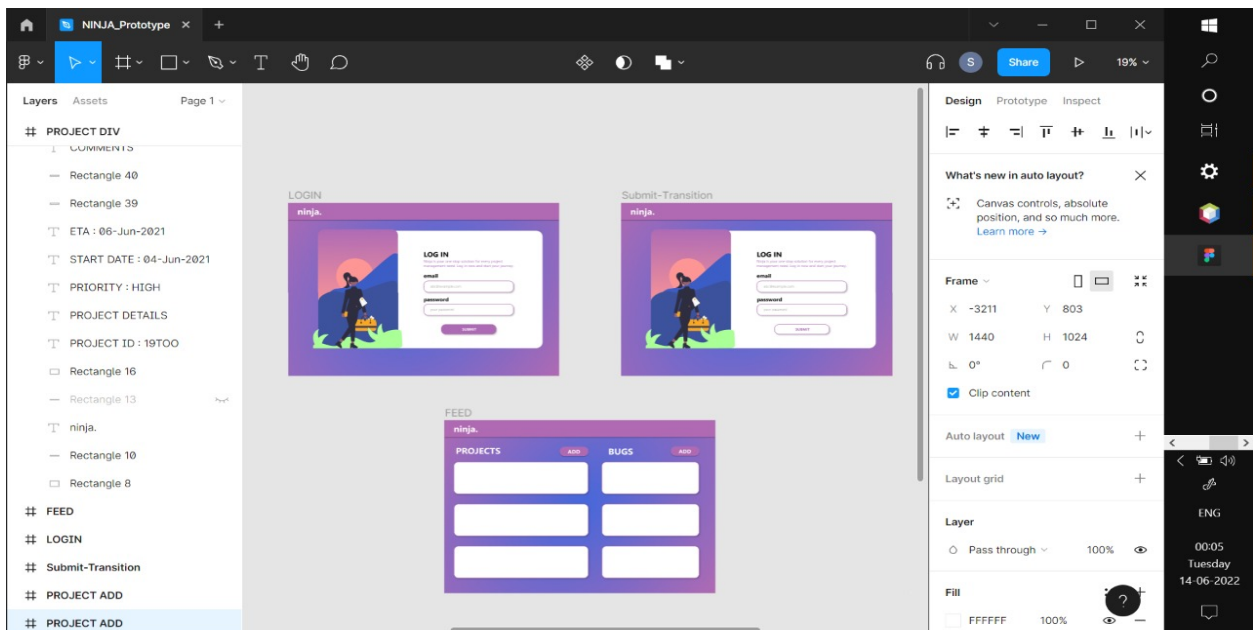
(2, 'Rahul', 'rahul@gmail.com', 'admin', 2, '9898989898', 'a', 'Project Manager', '2022-05-01', '1'),

(3, 'Mukul', 'mukul@gmail.com', 'admin', 3, '9898989897', 'ab', 'Software Engineer', '2022-05-01', '1');

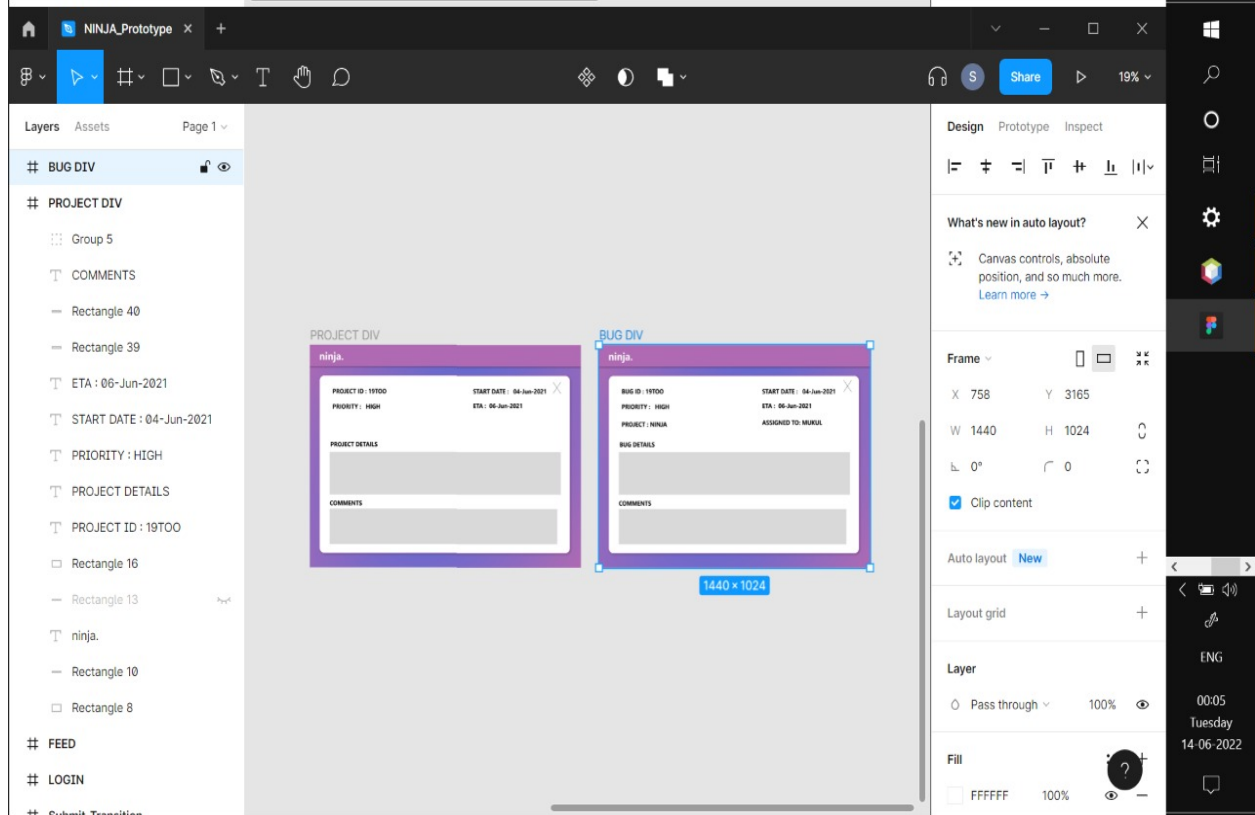
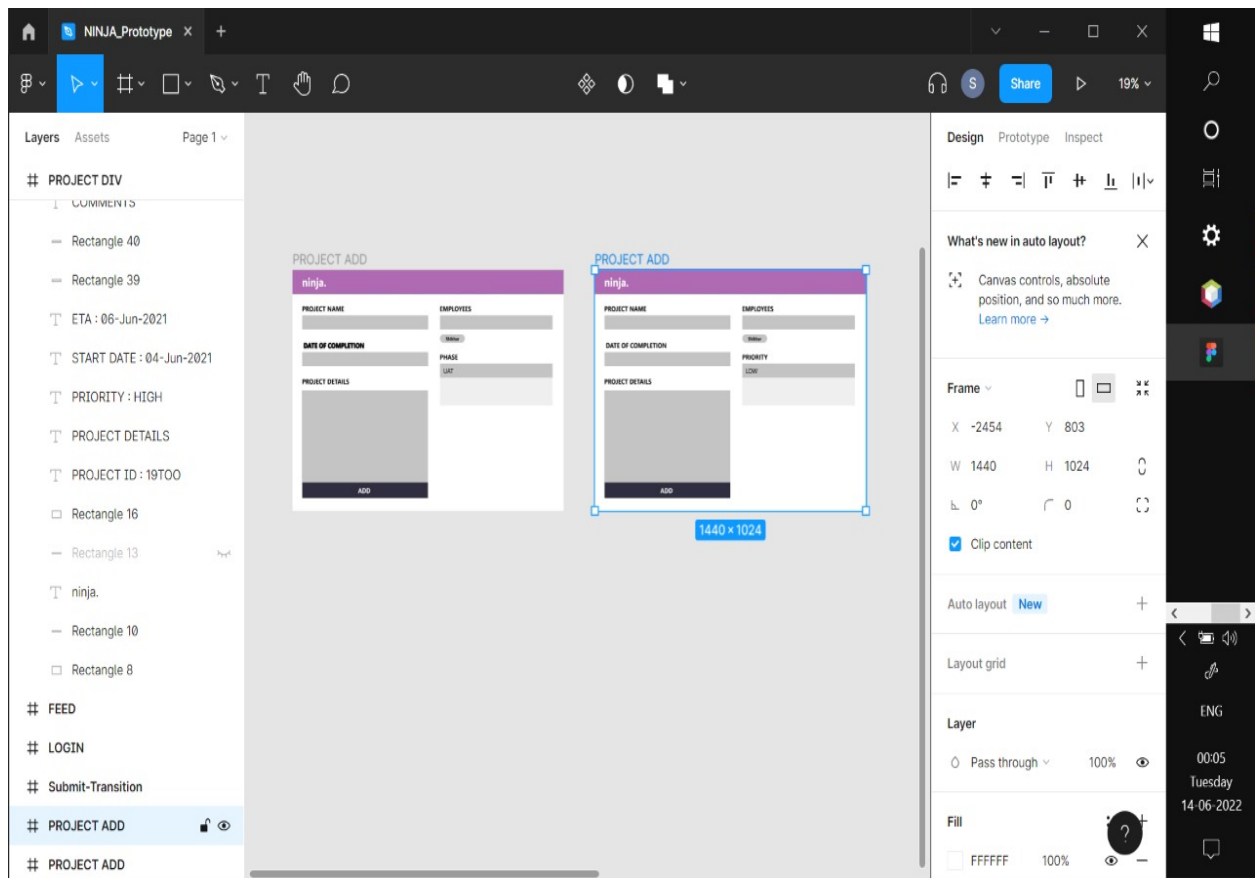
**Languages Used for Implementation:**

JSP/ SQL for server side scripting.

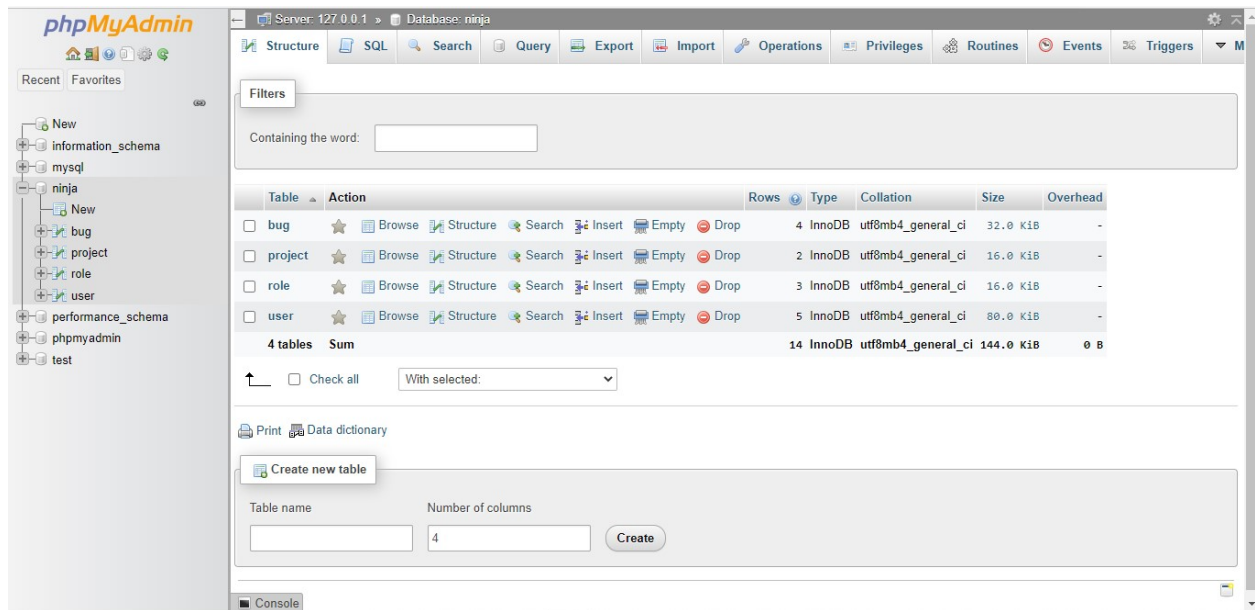
Java script, HTML, CSS for client side.





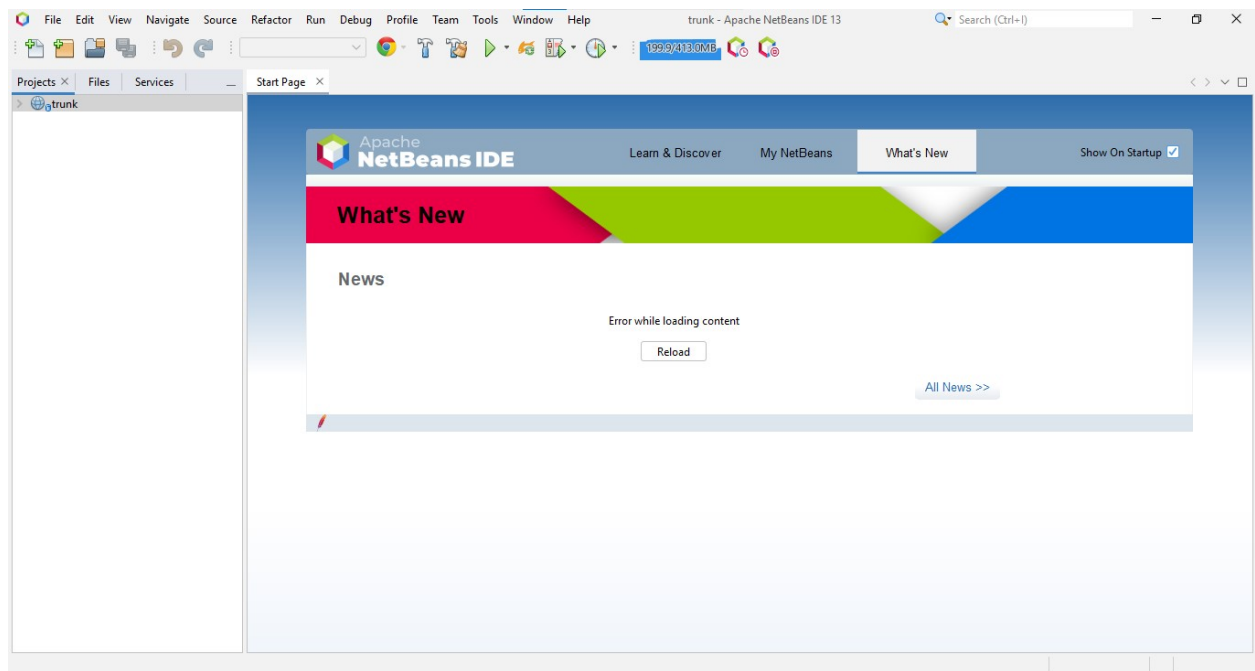


### Step 3:-Database

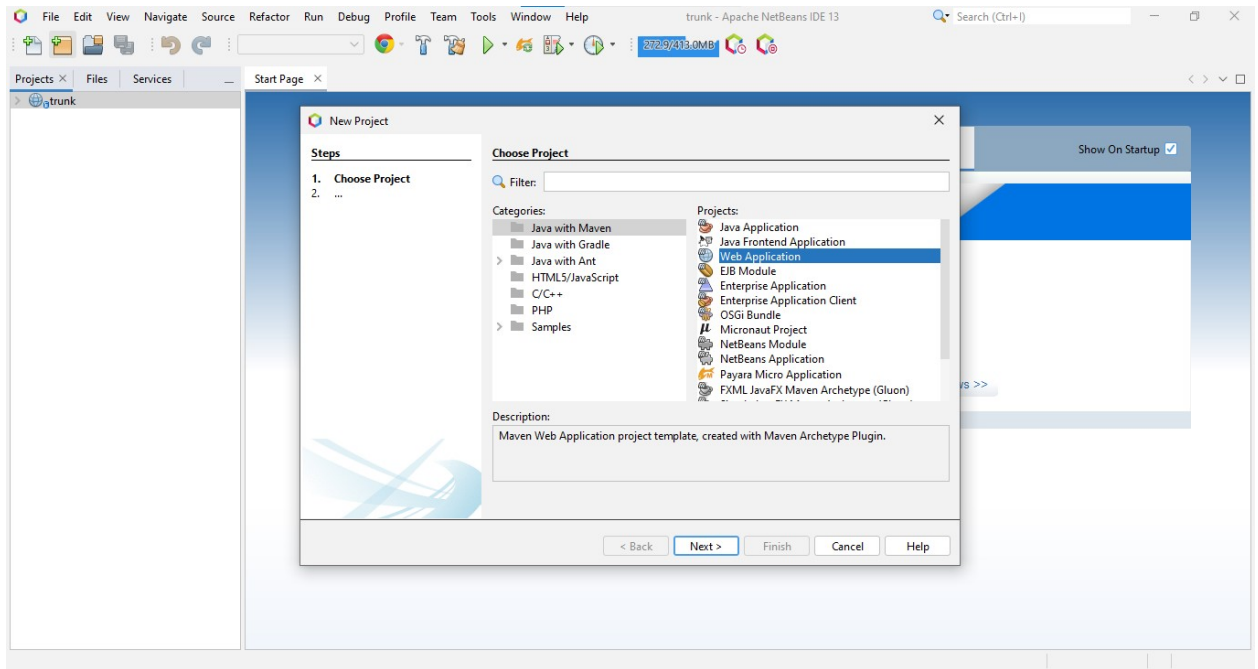


### Step 4:-Setting up Project

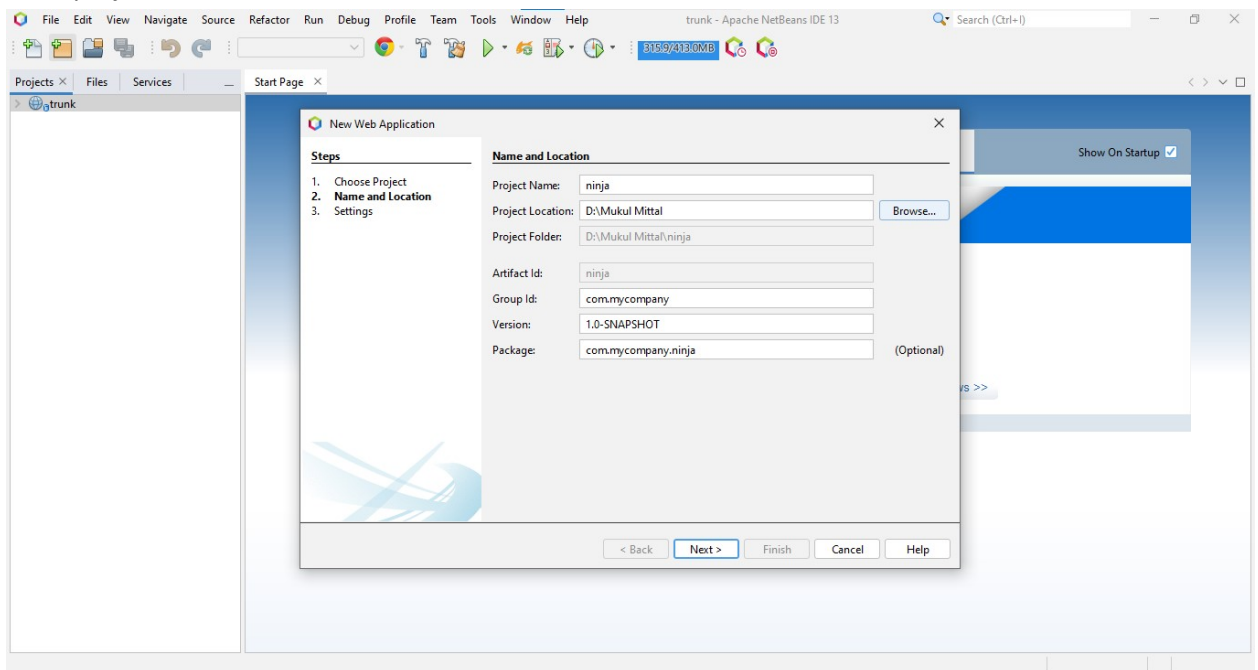
#### a. Open IDE



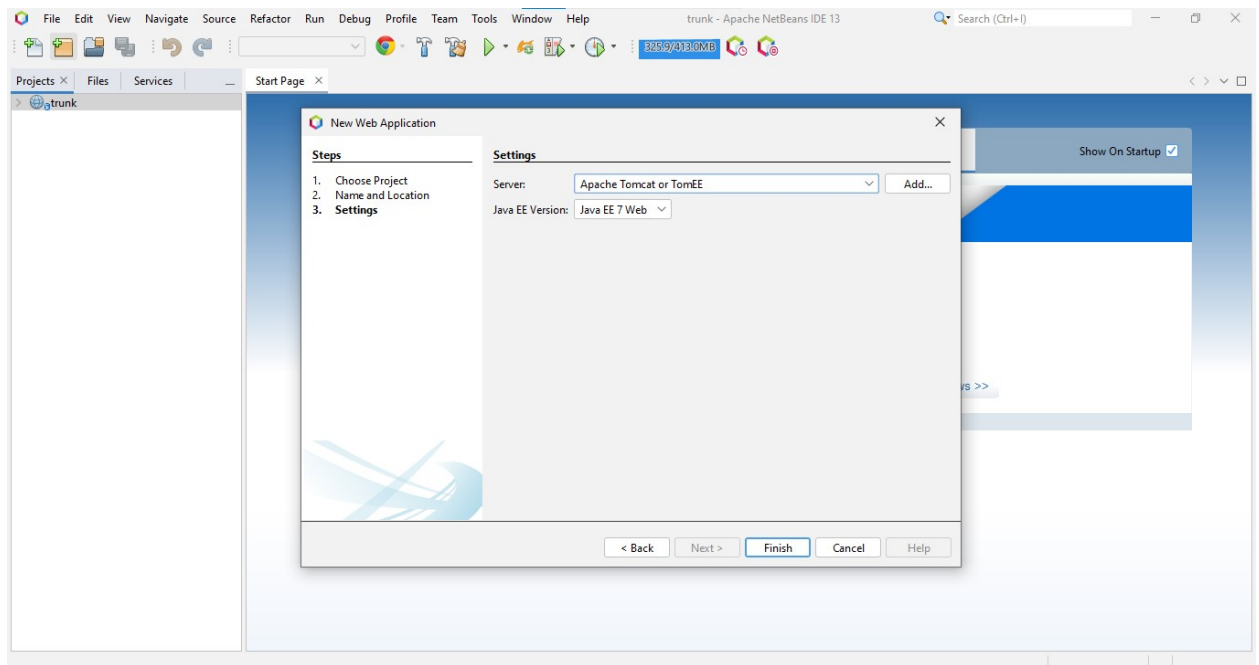
b. Create new project of type web application



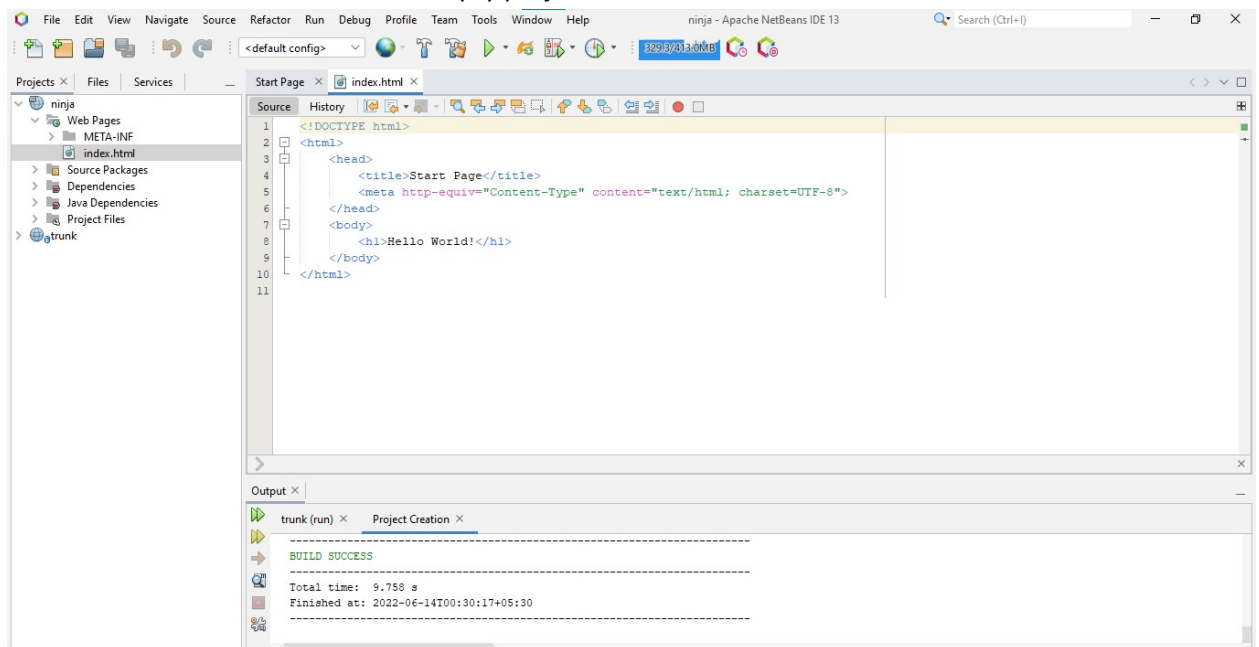
c. Enter project name and select location



d. Select the server and Java EE Version



e. Now click on finish it will create an empty project.

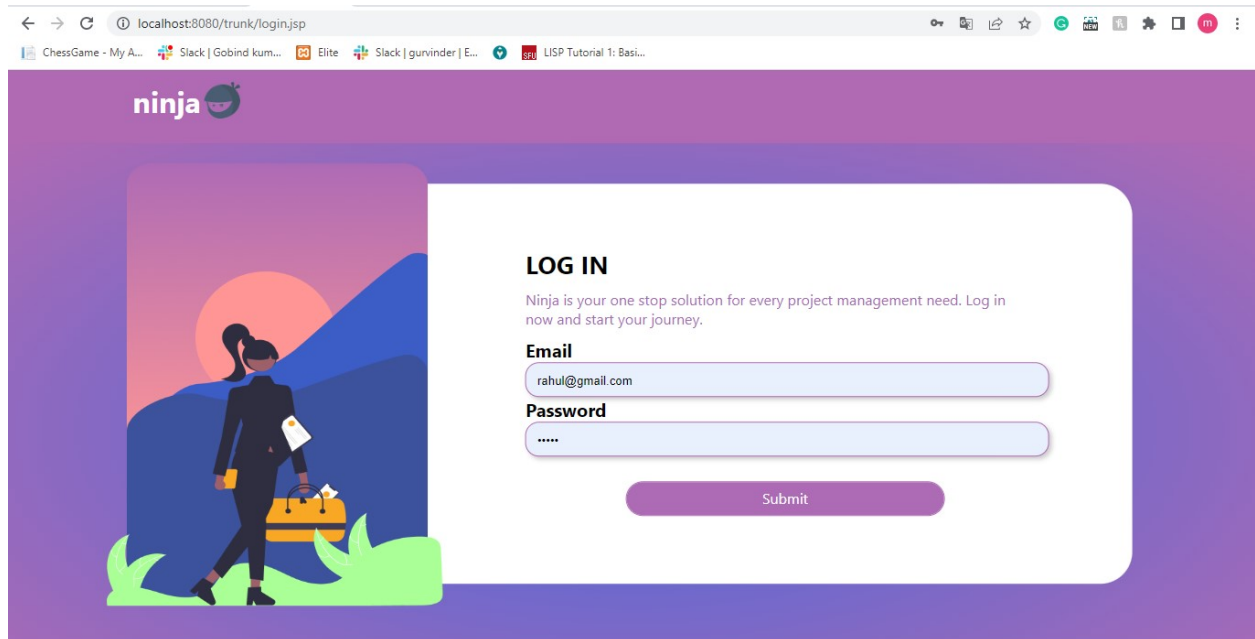


f. Source Code is present on the following Github link

[https://github.com/shikharfearow/MCS\\_Ninja](https://github.com/shikharfearow/MCS_Ninja)

## Screen shots

### Login panel for all users



A screenshot of a web browser showing the login page for 'ninja'. The browser's address bar displays 'localhost:8080/trunk/login.jsp'. The page has a purple header with the 'ninja' logo. On the left, there is an illustration of a person in a black suit walking with a yellow suitcase against a sunset background. On the right, a white box contains the 'LOG IN' section. It includes a welcome message, input fields for 'Email' (with 'rahul@gmail.com' entered) and 'Password' (with masked characters), and a 'Submit' button.

**ninja**

**LOG IN**

Ninja is your one stop solution for every project management need. Log in now and start your journey.

**Email**

rahul@gmail.com

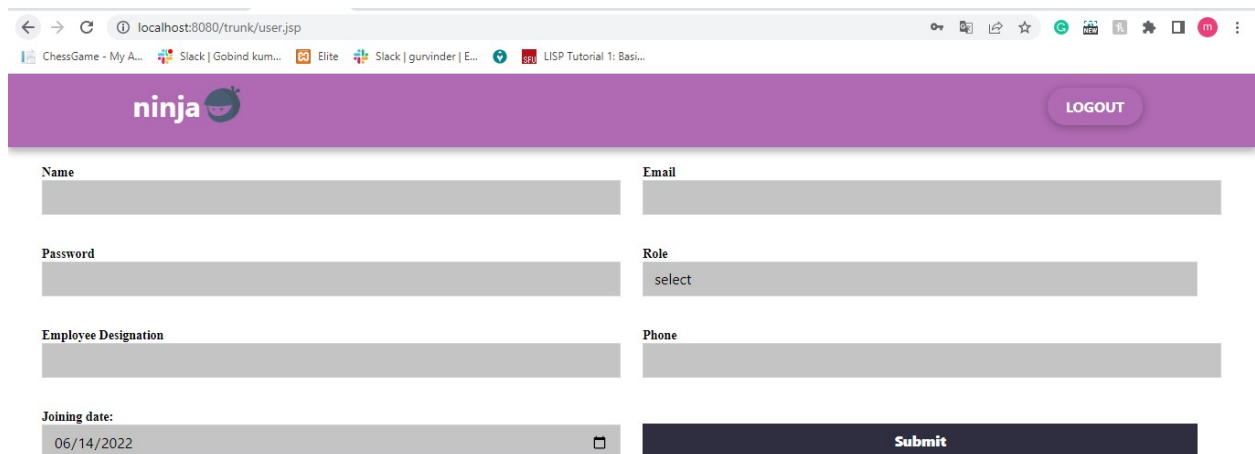
**Password**

.....

Submit

### Admin panel

#### a. Add user form



A screenshot of the 'Add user form' in the admin panel. The browser address bar shows 'localhost:8080/trunk/user.jsp'. The page has a purple header with the 'ninja' logo and a 'LOGOUT' button. The form consists of several input fields: 'Name', 'Email', 'Password', 'Role' (a dropdown menu showing 'select'), 'Employee Designation', and 'Phone'. At the bottom, there is a 'Joining date' field with a calendar icon, showing '06/14/2022', and a large dark 'Submit' button.

**ninja** LOGOUT

**Name**

**Email**

**Password**

**Role**  
select

**Employee Designation**

**Phone**

**Joining date:**  
06/14/2022

Submit

### Project Manager Panel

## a. Project/Bug feed

The screenshot shows a web application interface for a user named Rahul. The dashboard is divided into two main sections: PROJECTS and BUGS. The PROJECTS section lists two projects: PROJECT ID:1 NINJA (ETA:2022-06-04, Priority: High) and PROJECT ID:2 Ninja2 (ETA:2022-06-04, Priority: High). The BUGS section lists two bugs: BUG ID:2 DB Issue (Start Date:2022-06-01, ETA:2022-06-02, Assigned to:Rahul, Status:Open, Priority: High) and BUG ID:4 Add fetch details to user page (Start Date:2022-06-01, ETA:2022-06-02, Assigned to:Rahul, Status:Open, Priority: Medium). The interface includes a 'ninja' logo, a 'LOGOUT' button, and 'ADD' buttons for both sections.

localhost:8080/trunk/project\_feed.jsp

ChessGame - My A... Slack | Gobind kum... Elite Slack | gurvinder | E... USP Tutorial 1: Basi...

ninja

LOGOUT

Welcome, Rahul

PROJECTS ADD

PROJECT ID:1  
NINJA  
ETA:2022-06-04  
Priority: High

PROJECT ID:2  
Ninja2  
ETA:2022-06-04  
Priority: High

BUGS ADD

BUG ID:2  
DB Issue  
Start Date:2022-06-01  
ETA:2022-06-02  
Assigned to:Rahul  
Status:Open  
Priority: High

BUG ID:4  
Add fetch details to user page  
Start Date:2022-06-01  
ETA:2022-06-02  
Assigned to:Rahul  
Status:Open  
Priority: Medium

## b. Project detail

The screenshot shows a modal window displaying the details for Project ID:1 NINJA. The modal includes fields for Project Id (1), Name (NINJA), Start Date (2022-06-01), ETA (2022-06-04), and Priority (High). Below these fields is a 'Detail' section with a text area. At the bottom, there are two charts: 'Count of bugs priority wise' (a bar chart showing a count of 2.0 for 'high' priority) and 'Count of bugs status wise' (a donut chart showing 50% Fixed and 50% Open). The background shows the same Project/Bug feed dashboard as in the previous screenshot.

localhost:8080/trunk/project\_feed.jsp

ChessGame - My A... Slack | Gobind kum... Elite Slack | gurvinder | E... USP Tutorial 1: Basi...

ninja

LOGOUT

PROJECTS ADD

PROJECT ID:1  
NINJA  
ETA:2022-06-04  
Priority: High

PROJECT ID:2  
Ninja2  
ETA:2022-06-04  
Priority: High

Project Id : 1 Name : NINJA  
Start Date : 2022-06-01 ETA : 2022-06-04  
Priority : High  
Detail :

Count of bugs priority wise

bug count

2.0  
1.5  
1.0  
0.5  
0

high

Count of bugs status wise

Fixed Open

Priority: Medium

### c. Bug detail

localhost:8080/trunk/project\_feed.jsp

ChessGame - My A... Slack | Gobind kum... Elite Slack | gurvinder | E... USP Tutorial 1: Basi...

ninja

LOGOUT

PROJECTS

PROJECT ID:1  
NINJA  
ETA:2022-06-04  
Priority: High

PROJECT ID:2  
Ninja2  
ETA:2022-06-04  
Priority: High

ADD

Bug Id : 2  
Project : NINJA  
Start Date : 2022-06-01  
Assigned to : Rahul

Name : DB Issue  
Priority : High  
ETA : 2022-06-02  
Status : Open

Detail :  
null

Comment :  
asdasdsad

ETA:2022-06-02  
Assigned to:Rahul  
Status:Open  
Priority: Medium

### d. Add Project

localhost:8080/trunk/project.jsp

ChessGame - My A... Slack | Gobind kum... Elite Slack | gurvinder | E... USP Tutorial 1: Basi...

ninja

LOGOUT

Name  
Priority  
Select

Start Date  
mm/dd/yyyy

End Date  
mm/dd/yyyy

Phase  
Select

Detail

Submit

## e. add bug

The screenshot shows a web browser at localhost:8080/trunk/bug.jsp. The page has a purple header with the 'ninja' logo and a 'LOGOUT' button. The form contains several input fields: 'Name' (text), 'Status' (dropdown), 'Register Date' (calendar), 'Solve Date' (calendar), 'Project' (dropdown), 'Priority' (dropdown), 'Detail' (text area), 'Comment' (text area), and 'Assign' (dropdown). A 'Submit' button is at the bottom right.

Name	Status
<input type="text"/>	Select
Register Date	Solve Date
<input type="text" value="mm/dd/yyyy"/>	<input type="text" value="mm/dd/yyyy"/>
Project	Priority
Select	Select
Detail	Comment
<input type="text"/>	<input type="text"/>
Assign	Submit
select	

## Software engineer panel

### a. Bug feed page

The screenshot shows a web browser at localhost:8080/trunk/project\_feed.jsp. The page has a purple header with the 'ninja' logo and a 'LOGOUT' button. Below the header, it says 'Welcome, Mukul'. The main content area is titled 'BUGS' and contains a list of bug details. A button labeled 'ADD' is in the top right corner.

**BUGS**

**ADD**

**BUG ID:3**  
**Add assigned by to bug db**  
Start Date:2022-06-01  
ETA:2022-06-01  
Assigned to:Mukul  
Status:New  
Priority: High

### b. bug detail



Add assigned l

ETA:2022-06-01

Assigned to:Mu

Priority: High

100

**Name :** Add assigned by to bug db

**Priority :** High

ETA : 2022-06-01

Status : New