DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

PANJAB UNIVERSITY CHANDIGARH

SESSION: 2021-2023

Project report of java project Ninja.

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Class:M.Sc.(hons.) Computer Science

Submitted to:
Anu Gupta mam
(Professor)
DCSA, PU

Team Members:

Shikhar Bhardwaj (33009), Mukul Mittal(33005)

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');
```

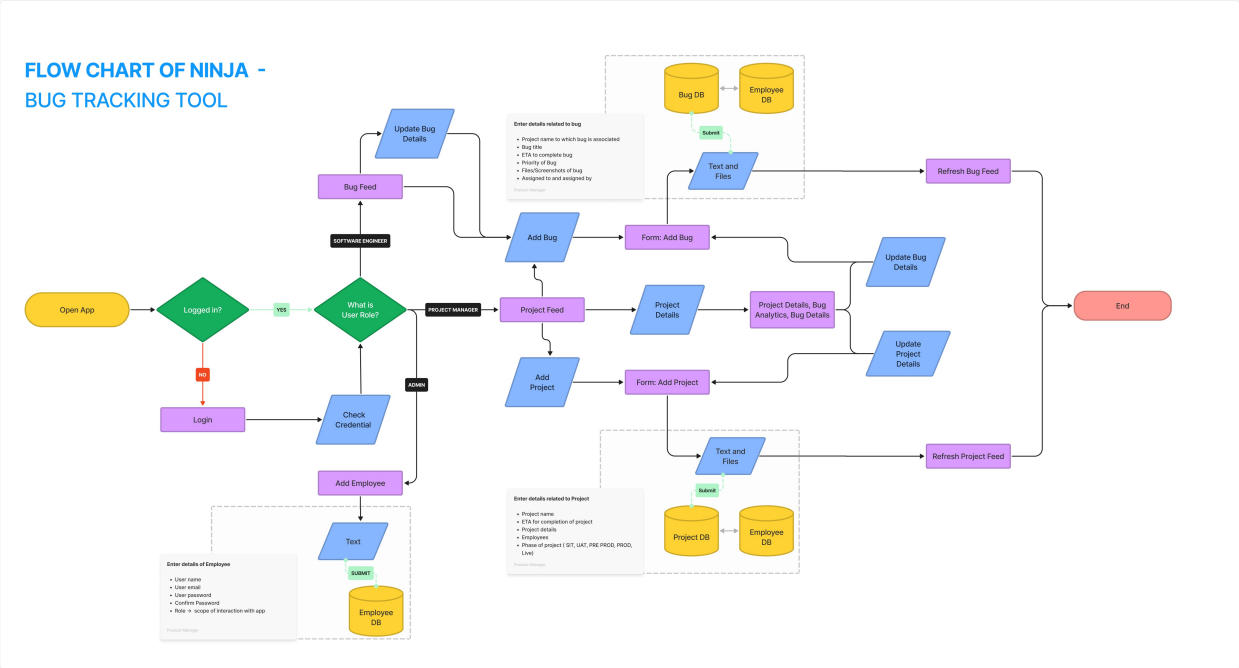
Languages Used for Implementation:

JSP/ SQL for server side scripting.

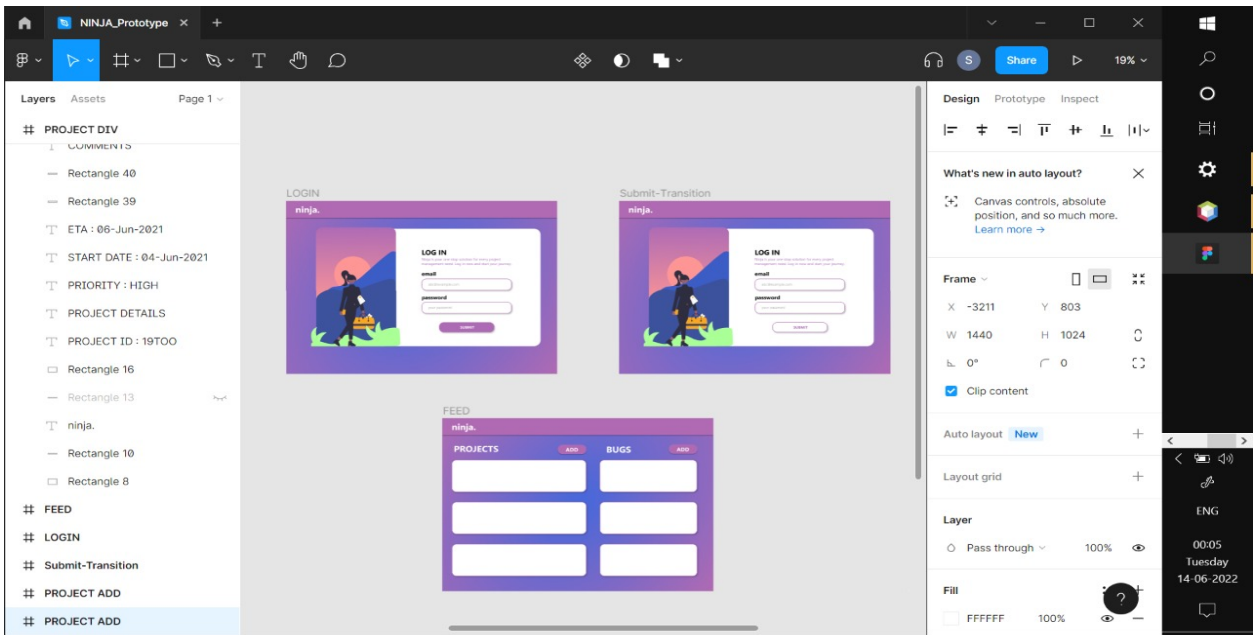
Java script, HTML, CSS for client side.

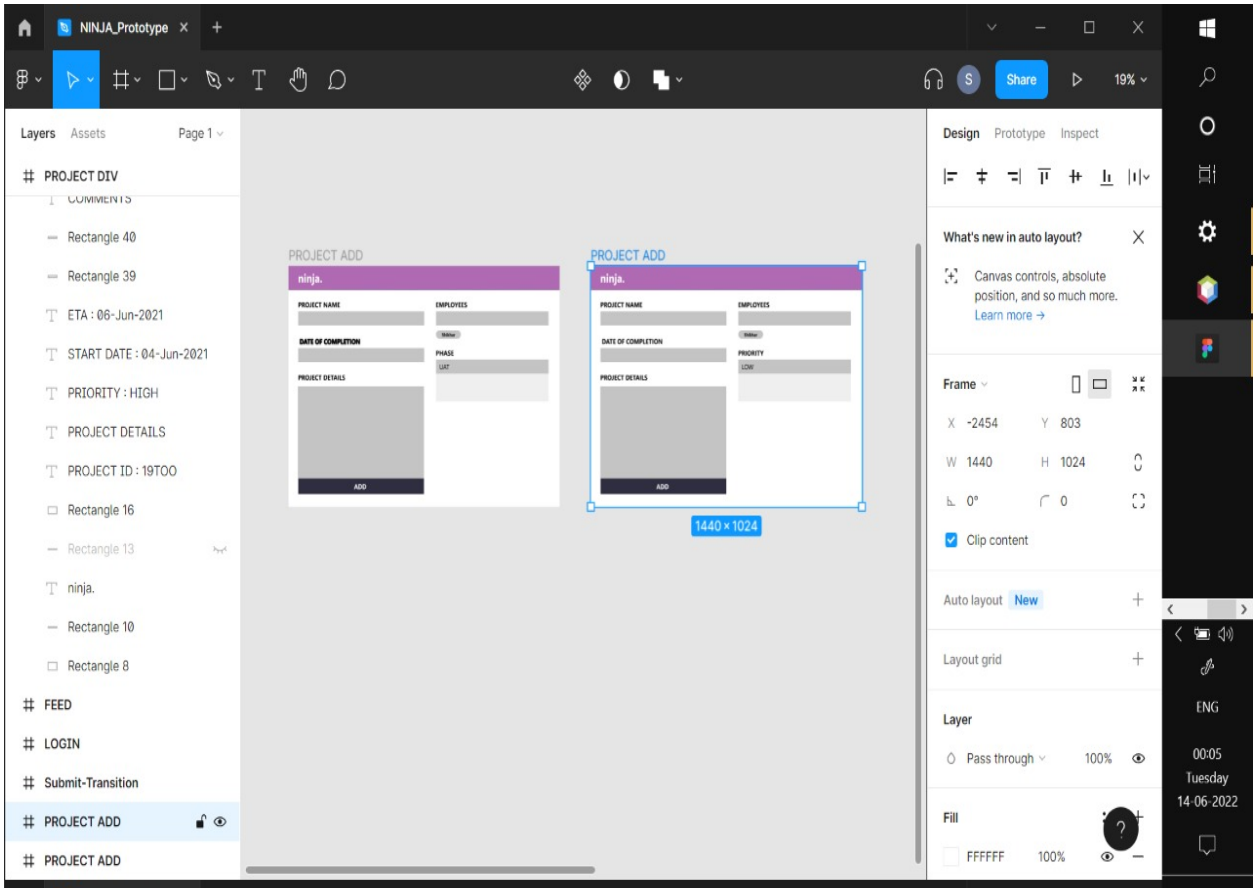
Project development life cycle:-

Step 1:- Flow chart



Step 2:- Design




NINJA_Prototype
Share
19%
Layers
Assets
Page 1
PROJECT DIV
Rectangle 40
Rectangle 39
ETA : 06-Jun-2021
START DATE : 04-Jun-2021
PRIORITY : HIGH
PROJECT DETAILS
PROJECT ID : 19TOO
Rectangle 16
Rectangle 13
ninja.
Rectangle 10
Rectangle 8
FEED
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Submit-Transition
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PROJECT NAME
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PHASE
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PROJECT NAME
EMPLOYEES
DATE OF COMPLETION
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ADD
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Prototype
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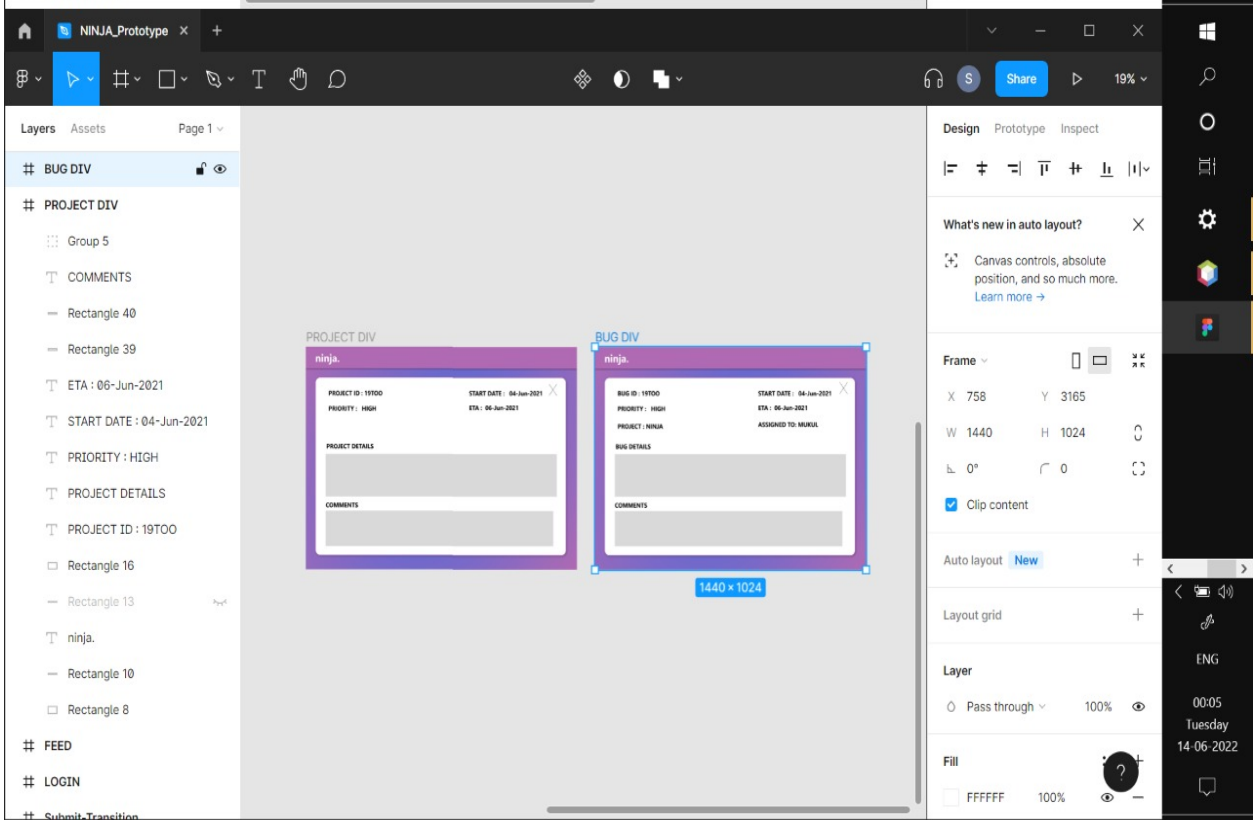
NINJA_Prototype
Share
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Layers
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Page 1
BUG DIV
PROJECT DIV
Group 5
COMMENTS
Rectangle 40
Rectangle 39
ETA : 06-Jun-2021
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BUG DIV
ninja.
BUG ID : 19TOO
START DATE : 04-Jun-2021
PRIORITY : HIGH
ETA : 06-Jun-2021
PROJECT : NINJA
ASSIGNED TO: MUKUL
BUG DETAILS
COMMENTS
1440 × 1024
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Y 3165
W 1440
H 1024
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Clip content
Auto layout
New
Layout grid
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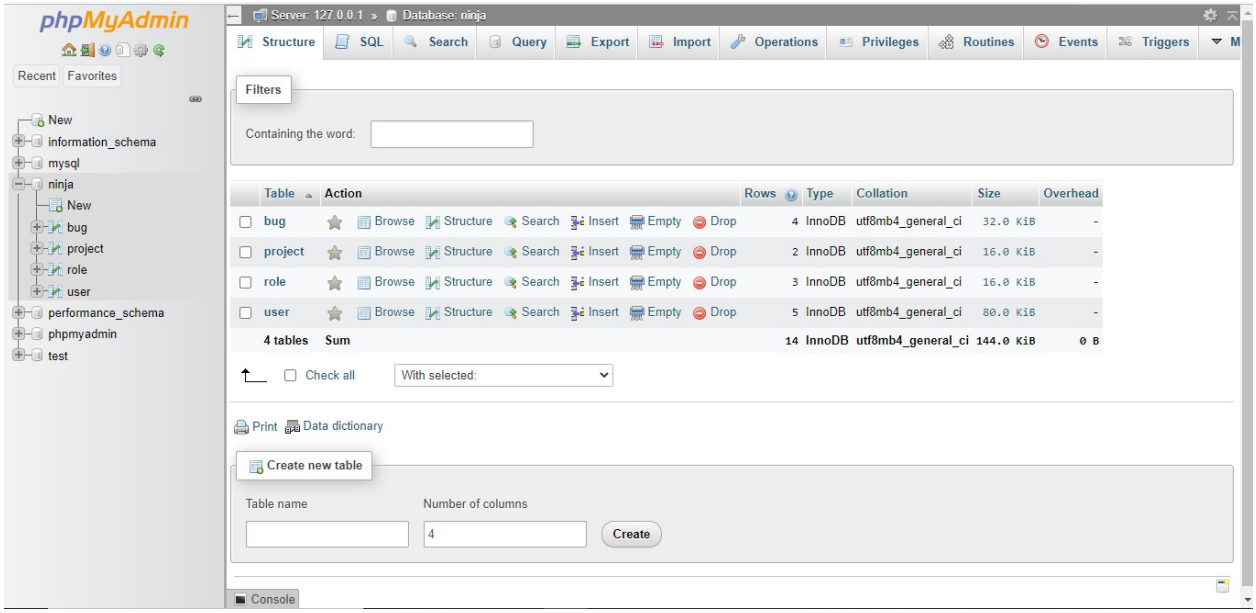
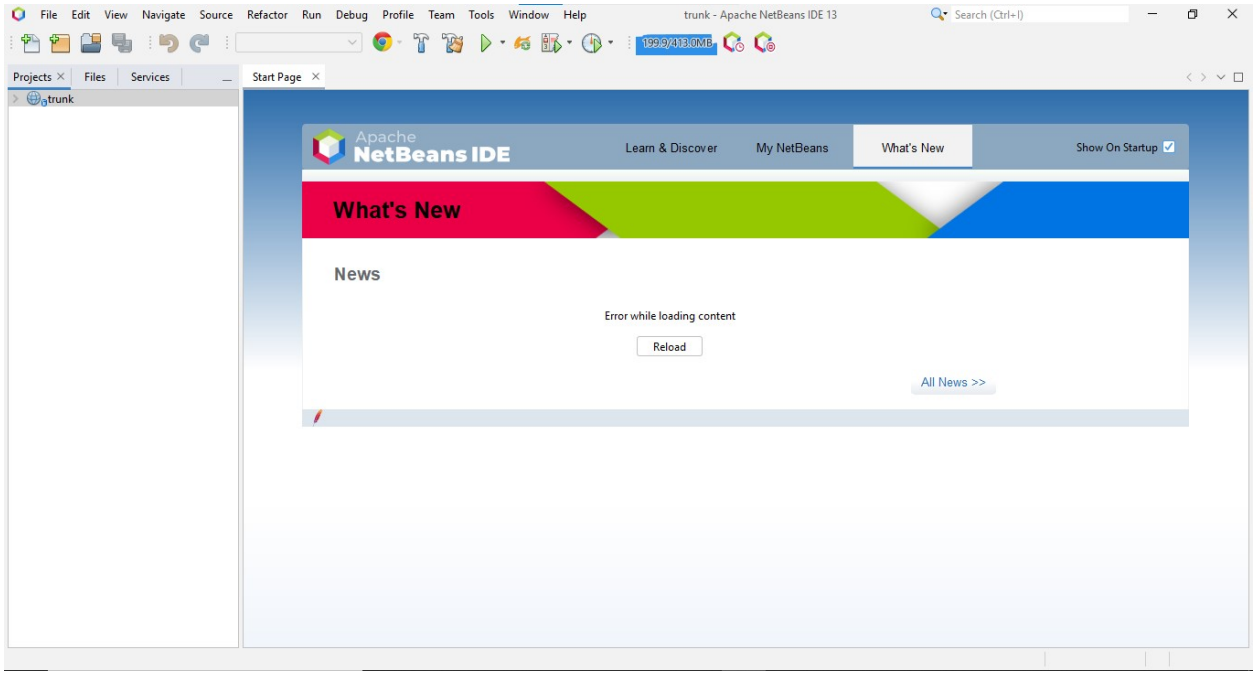
14-06-2022

Step 3:-Database

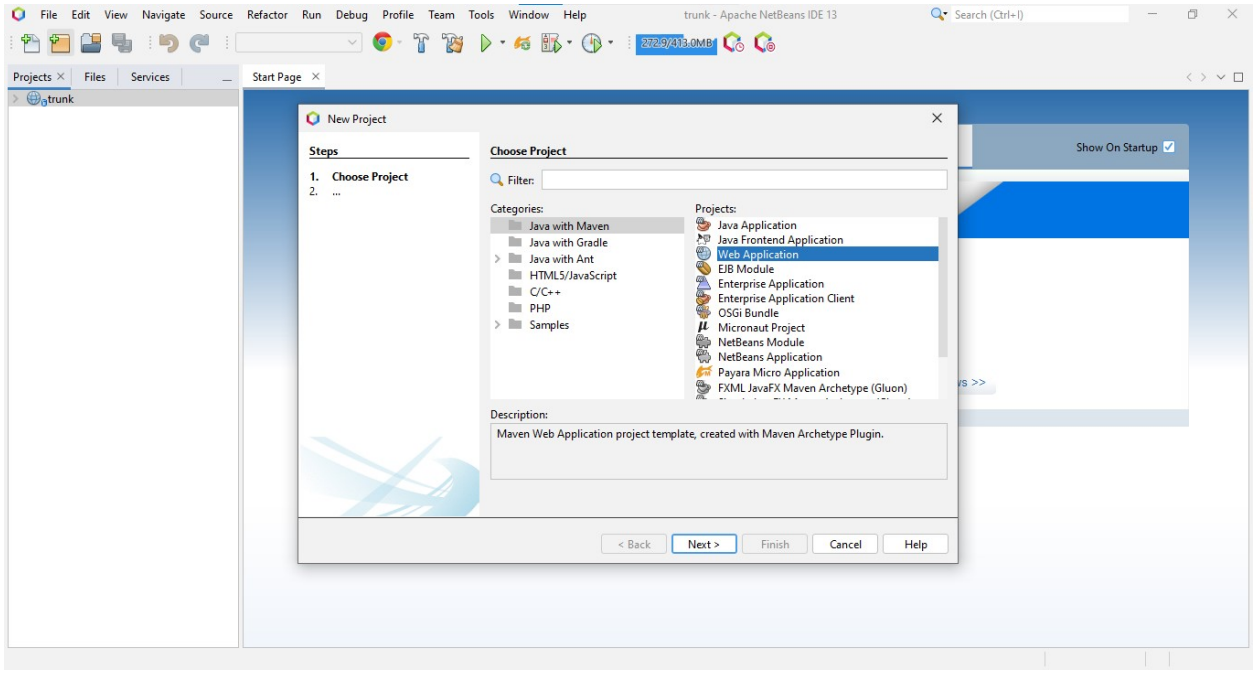


Step 4:-Setting up Project

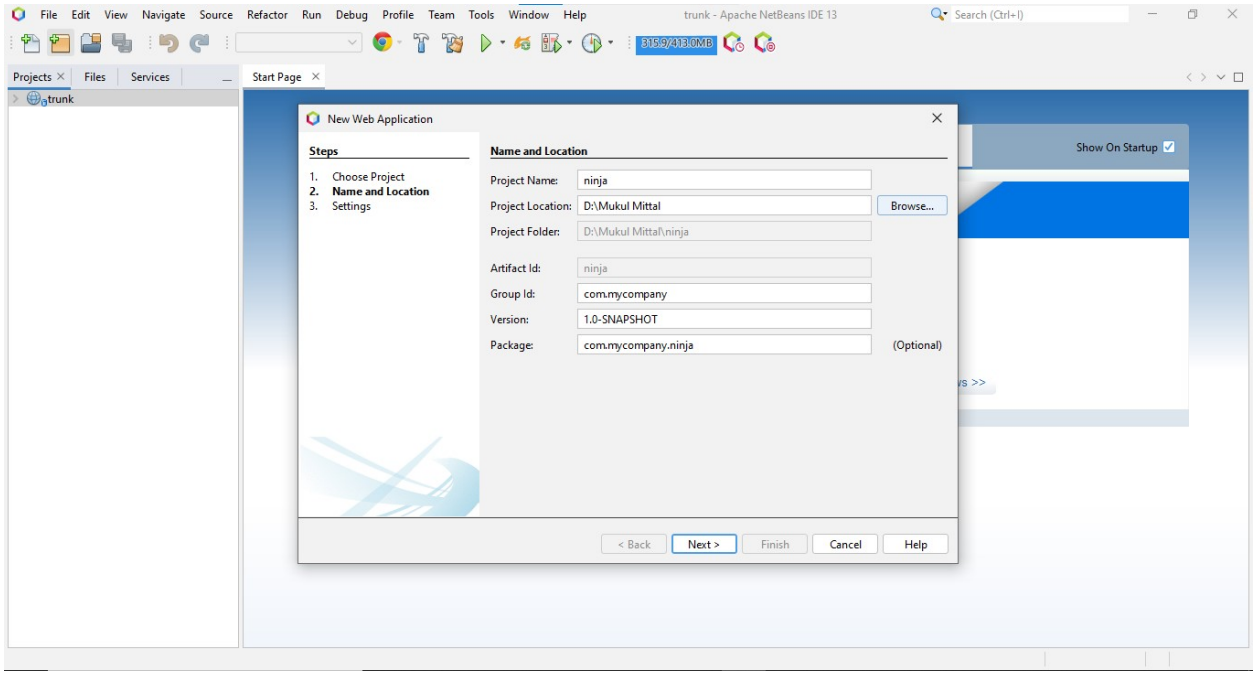
a. Open IDE



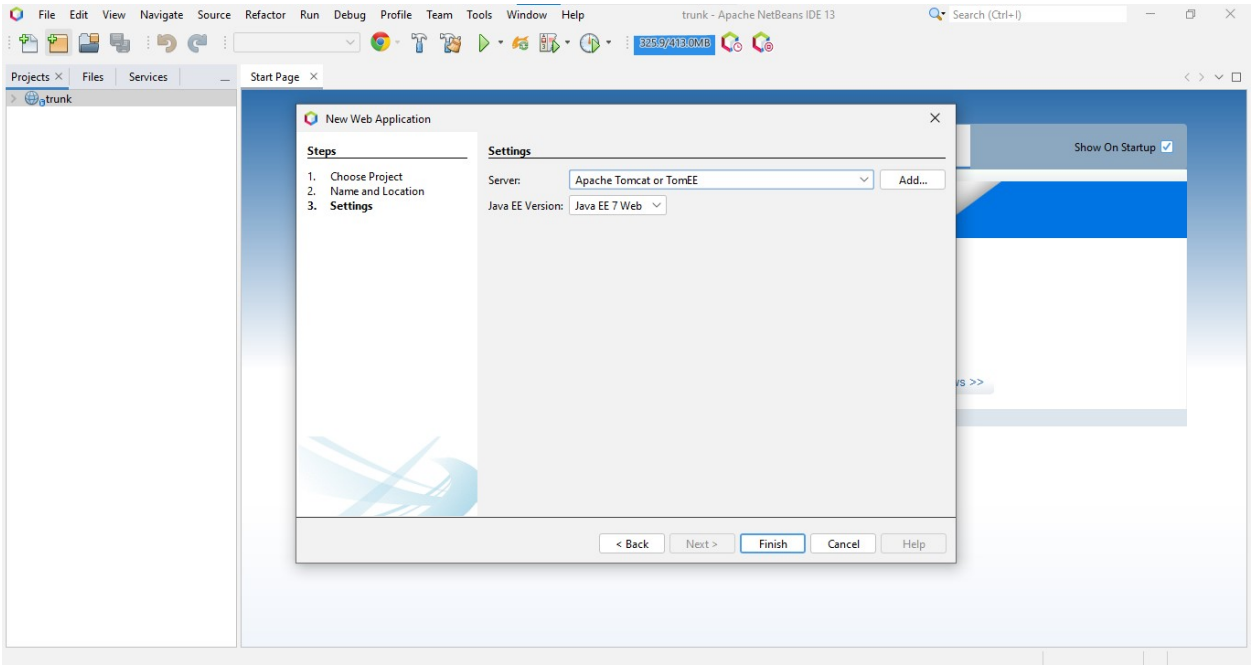
b. Create new project of type web application



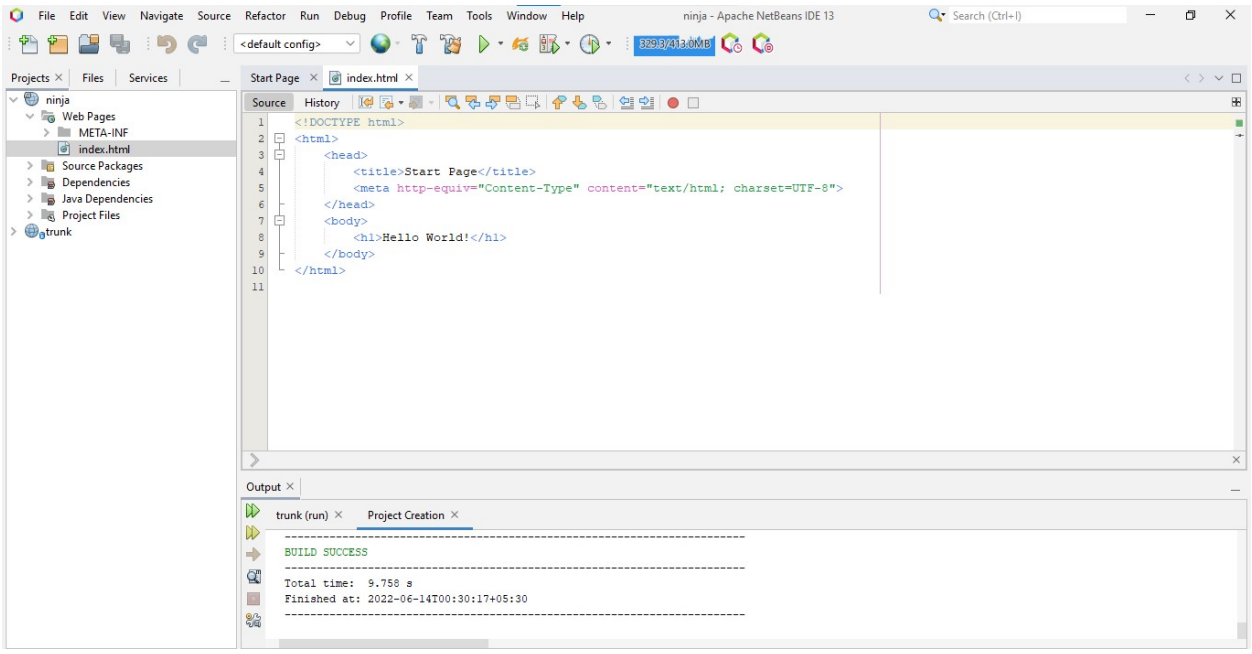
c. Enter project name and select location



d. Select the server and Java EE Version



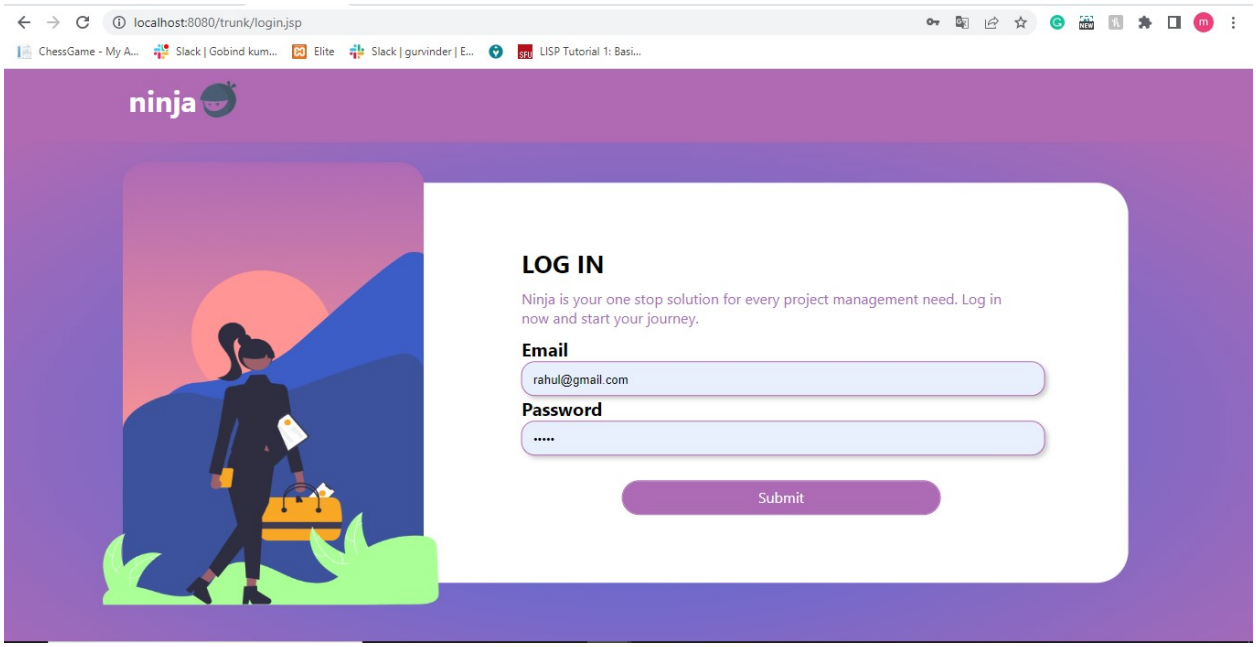
e. Now click on finish it will create an empty project.



f. Source Code is present on the following Github link
https://github.com/shikharfearow/MCS_Ninja

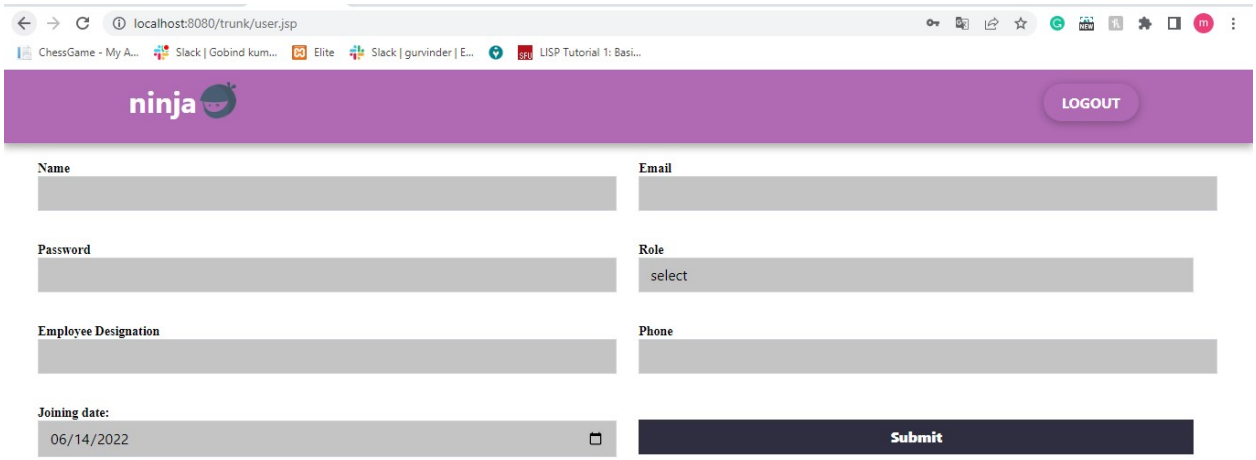
Screen shots

Login panel for all users



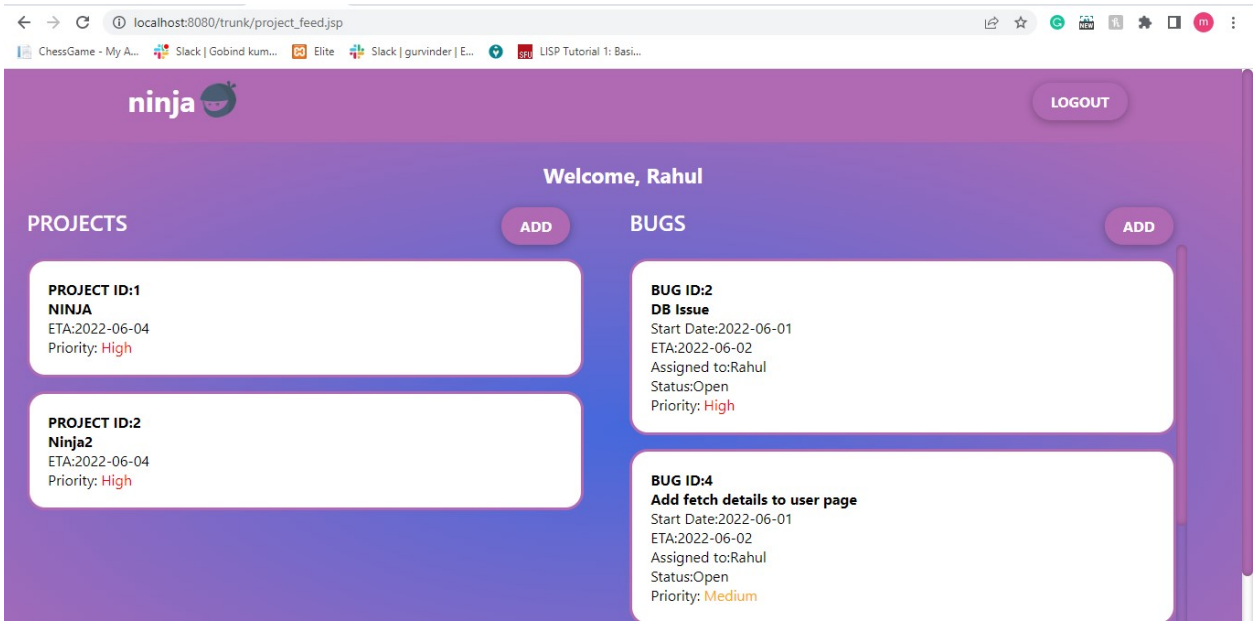
Admin panel

a. Add user form

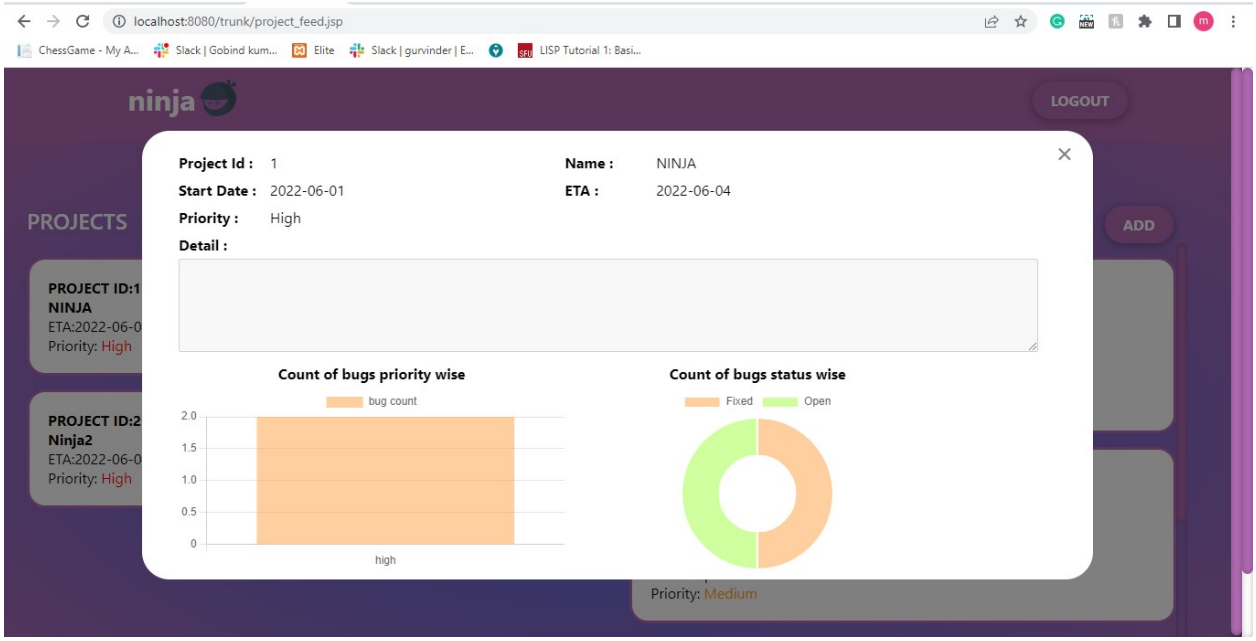


Project Manager Panel

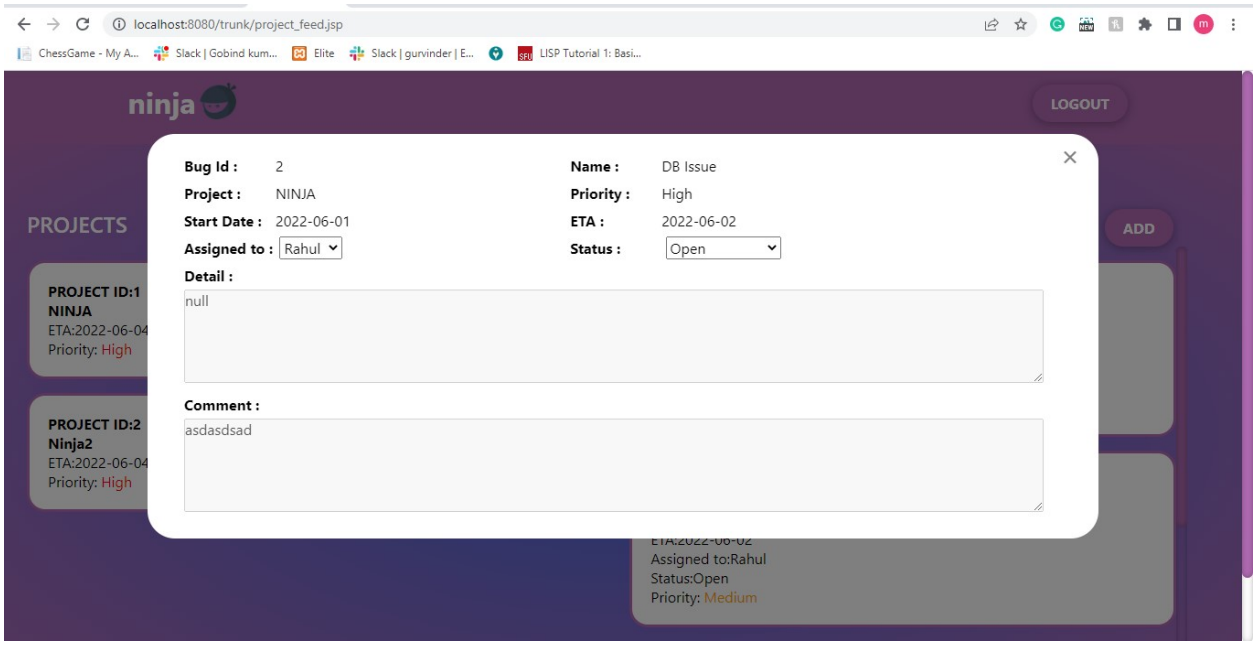
a. Project/Bug feed



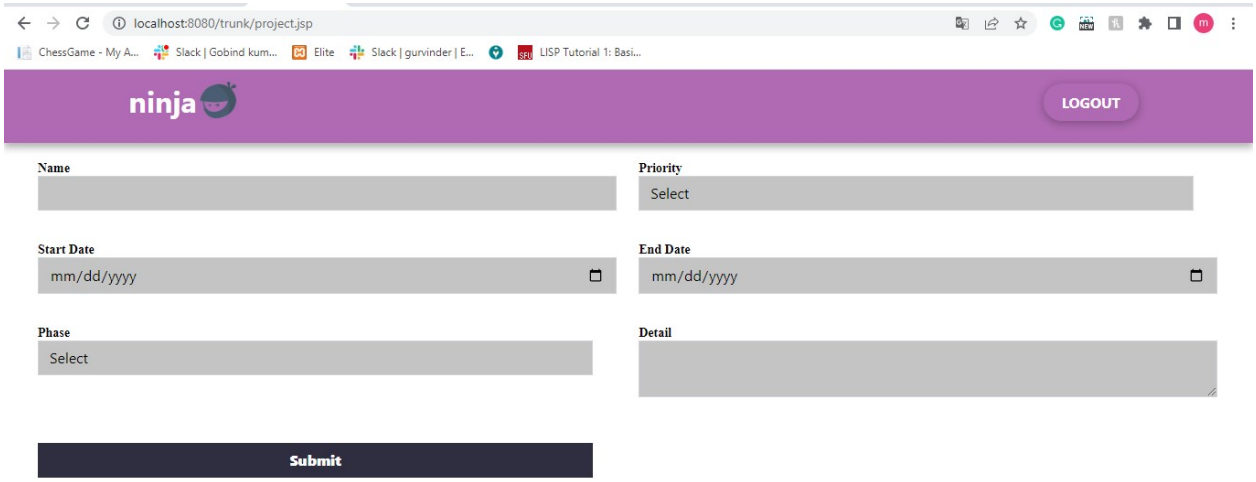
b. Project detail



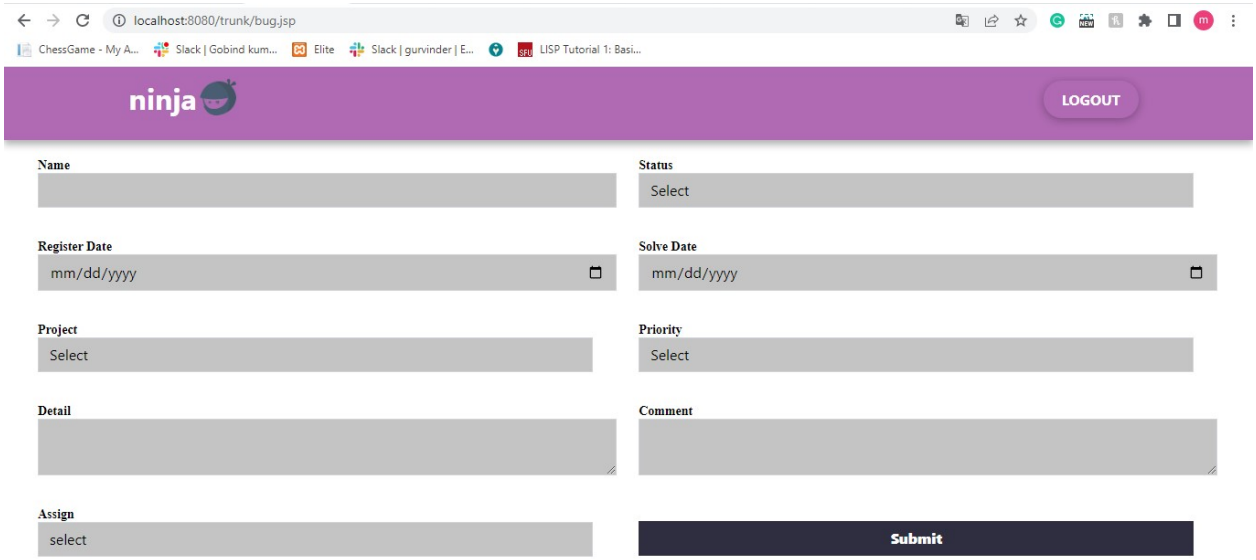
c. Bug detail



d. Add Project

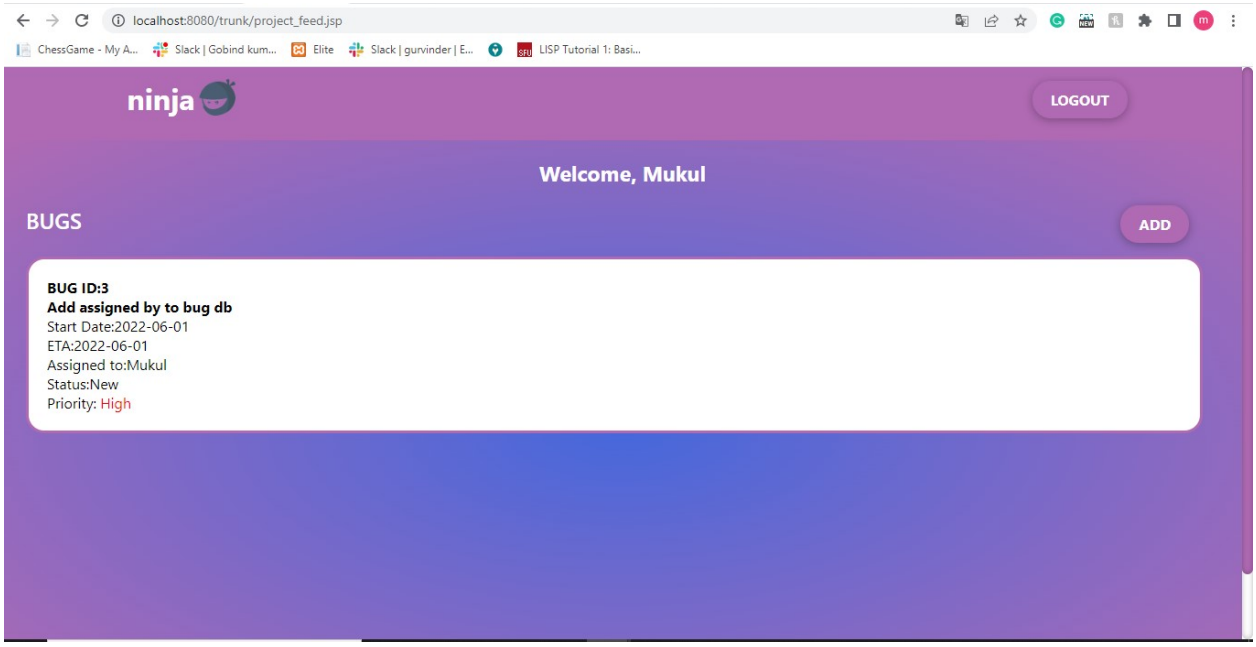


e. add bug

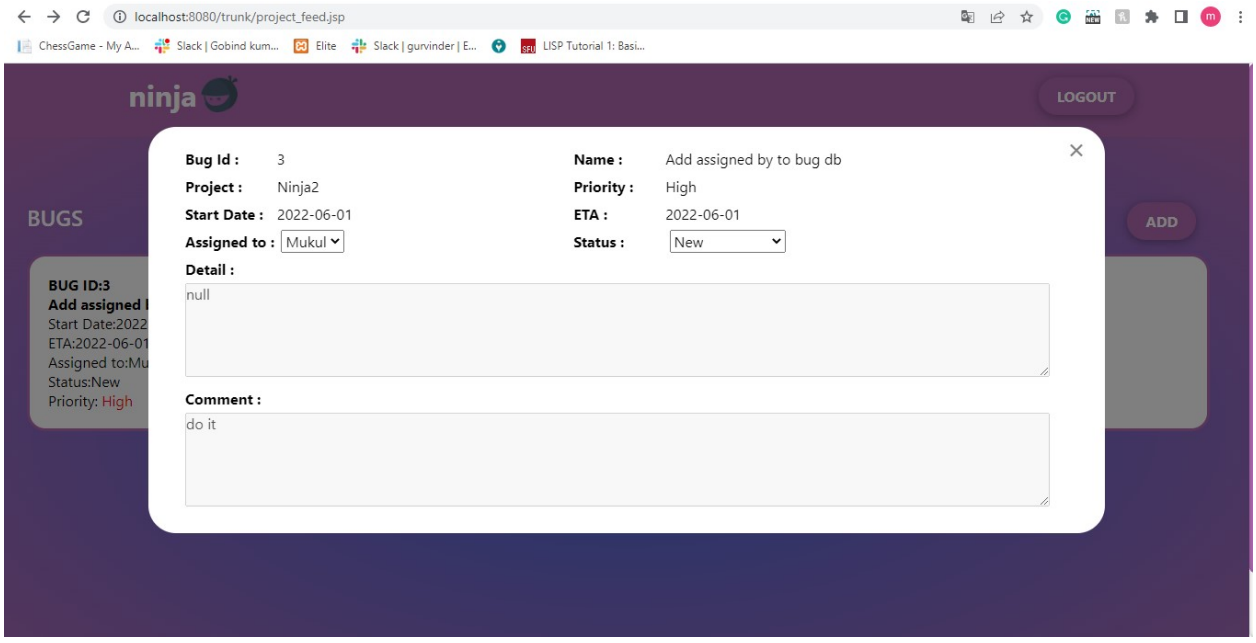


Software engineer panel

a. Bug feed page



b. bug detail


localhost:8080/trunk/project_feed.jsp
ChessGame - My A...
Slack | Gobind kum...
Elite
Slack | gurvinder | E...
LISP Tutorial 1: Basi...
ninja
LOGOUT
BUGS
ADD
BUG ID:3
Add assigned
Start Date:2022
ETA:2022-06-01
Assigned to:Mu
Status:New
Priority: High
Bug Id : 3
Name : Add assigned by to bug db
Project : Ninja2
Priority : High
Start Date : 2022-06-01
ETA : 2022-06-01
Assigned to : Mukul
Status : New
Detail :
null
Comment :
do it