

# Employee Appraisal

- Employee appraisal/rating by his/her manager and self-review.
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- [Github repo link](#)

## Frameworks and tools used

- Frontend - **Angular**
- Backend - **Node js - Express**
- Database - **Mongodb/Mongoose**
- Authentication/Authorization - **JWT** token based
- UI components - **Angular Material**

Backend exposes **JSON REST** api endpoints. These are used for communication with the angular frontend. This is a **SPA**. Also uses **MVC** structure to organize code. **JWT** tokens are stored in browser local storage.

## Modules

- **User module**
  - Login/Logout .
  - New Registration for manager and employee.
  - Multiple logins from different devices possible (all **JWT tokens** are stored).
  - Uses JWT tokens for authentication.
  - **CRUD** operations for user info.
    - Update and delete api routes exist but are to be added to the frontend.
  - Employees can select who their manager is .
  - Manager can view his employees.

- **Review/appraisal module**

- Basically stored as numeric ratings and name of review in the database.
- Manager can give reviews to his employees/subordinates only. Also employees can give self review.
- **CRUD** operations for reviews can be done by one who has given the reviews(owner of review).
- Employees can view reviews given to them by managers and themselves.

- **Frontend**

- Written in **angular**.
- **Responsive** and simple.
- Fast/quick.

- **Database - Mongodb**

- Uses **mongoose** for schema modelling.
- Models - *User* and *Review*.
- Uses **bcrypt** to store hashed passwords.

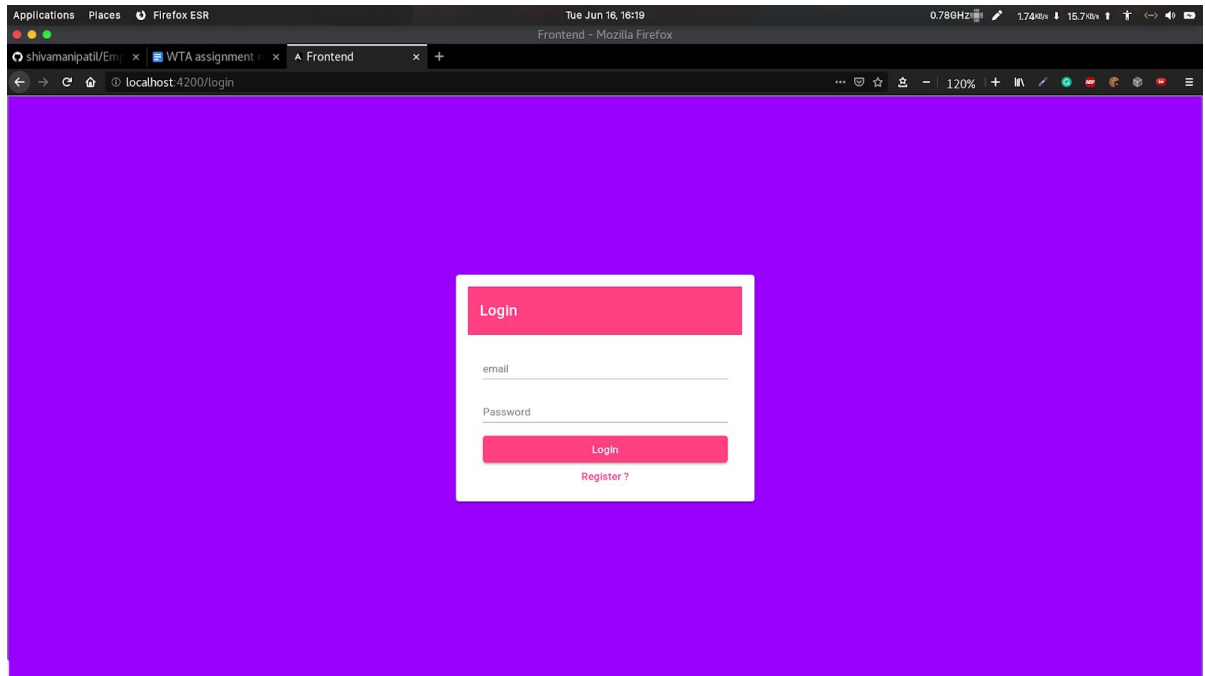
- **Backend**

- Express and node for serving JSON api's.
- Middlewares for Authorization/authentication using **JWT** and role(employee and manager) checking.
- API routes -
  - GET /profile
  - POST /api/register
  - POST /api/login
  - POST /users/logout
  - POST /users/logoutAll
  - DELETE /users/me
  - PATCH /users/me
  - GET /api/subordinates
  - GET /api/managers

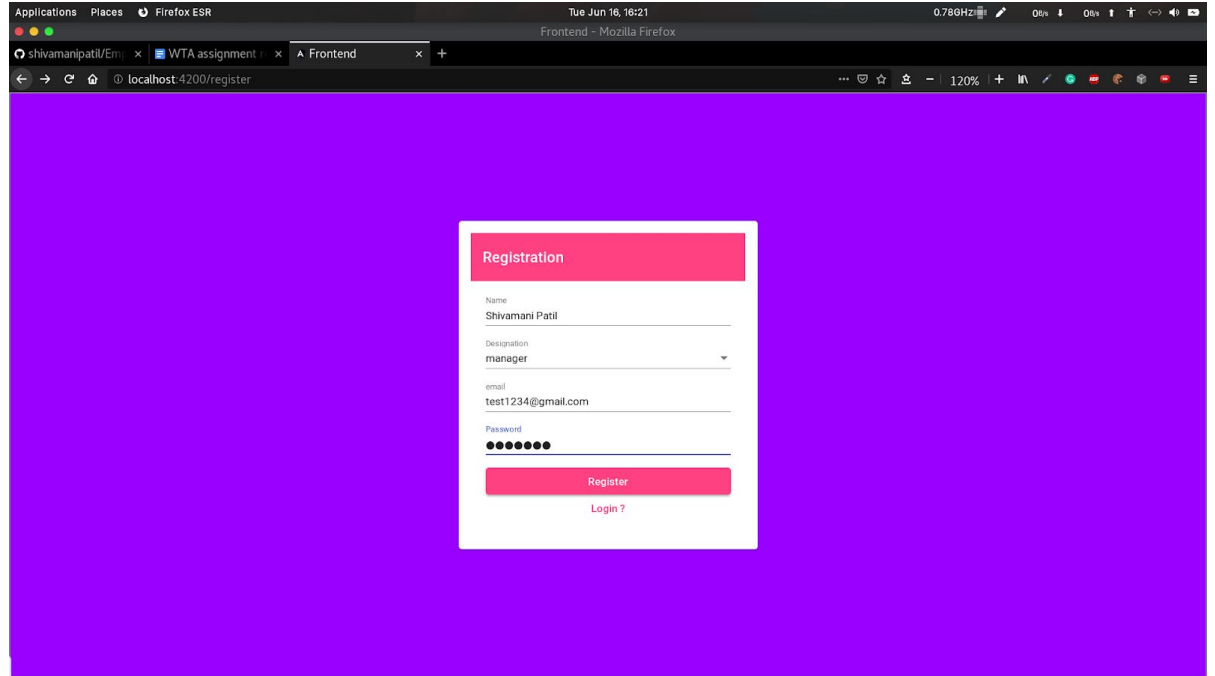
- POST /api/addManager
- GET /api/reviews
- POST /api/reviews
- DELETE /api/reviews
- PATCH /api/reviews

## Screenshots

### 1. Login and registration

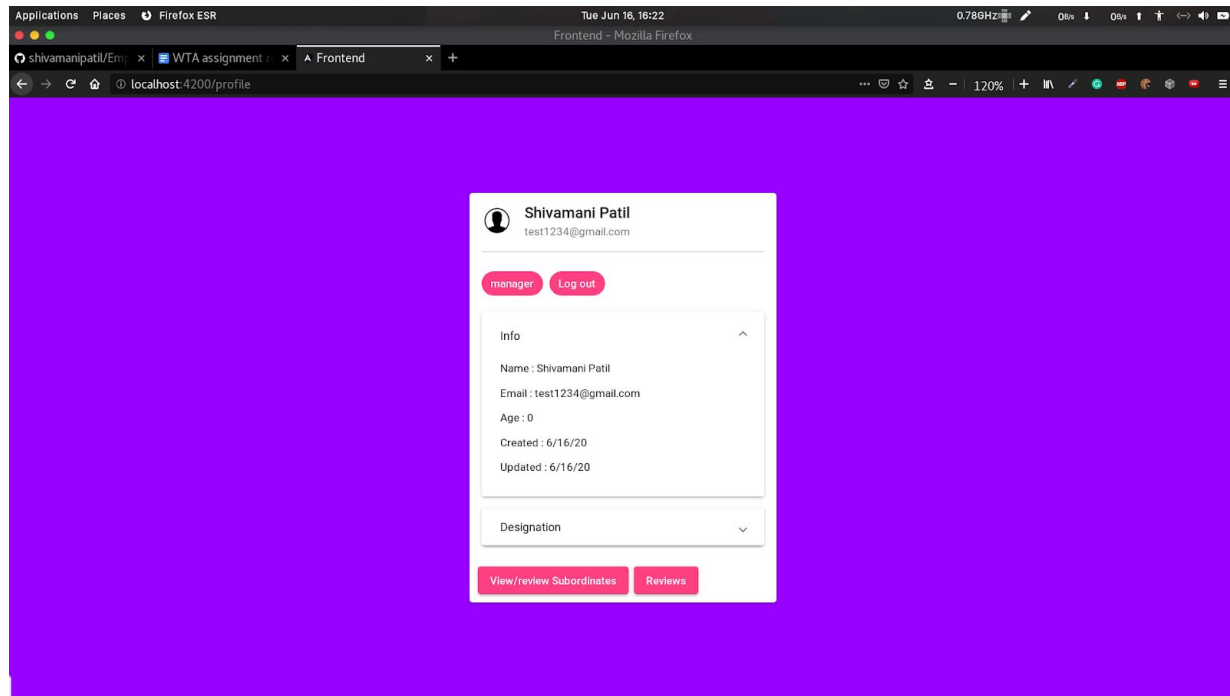


a.

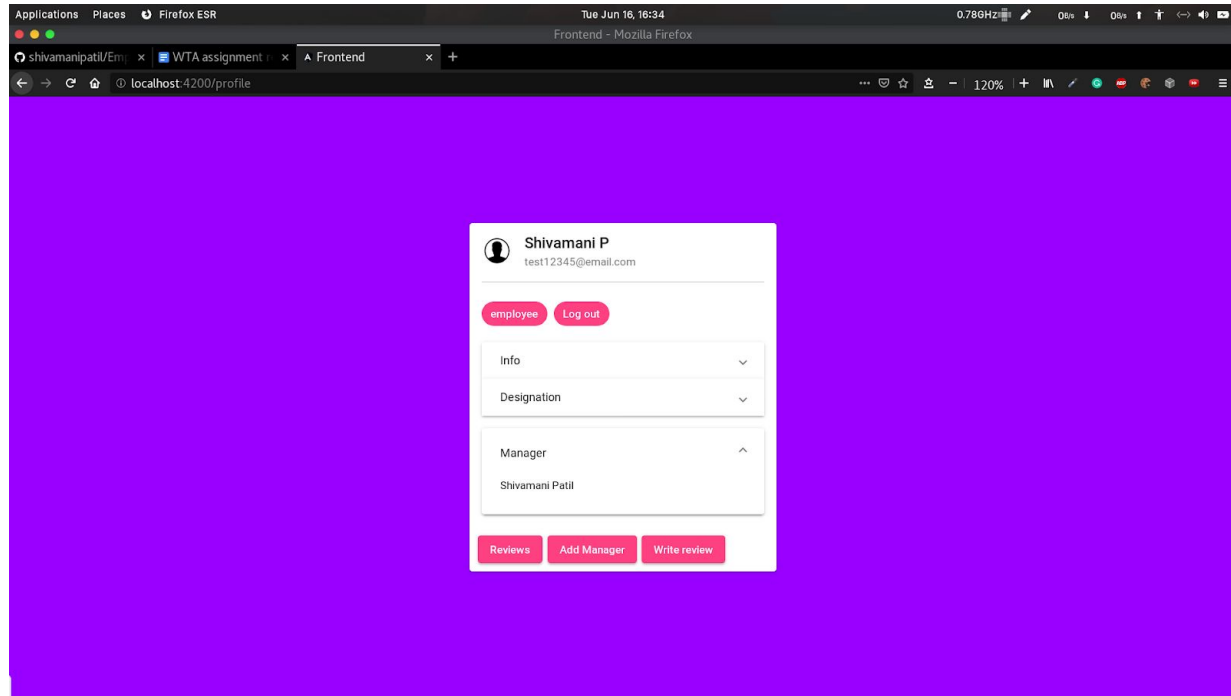


b.

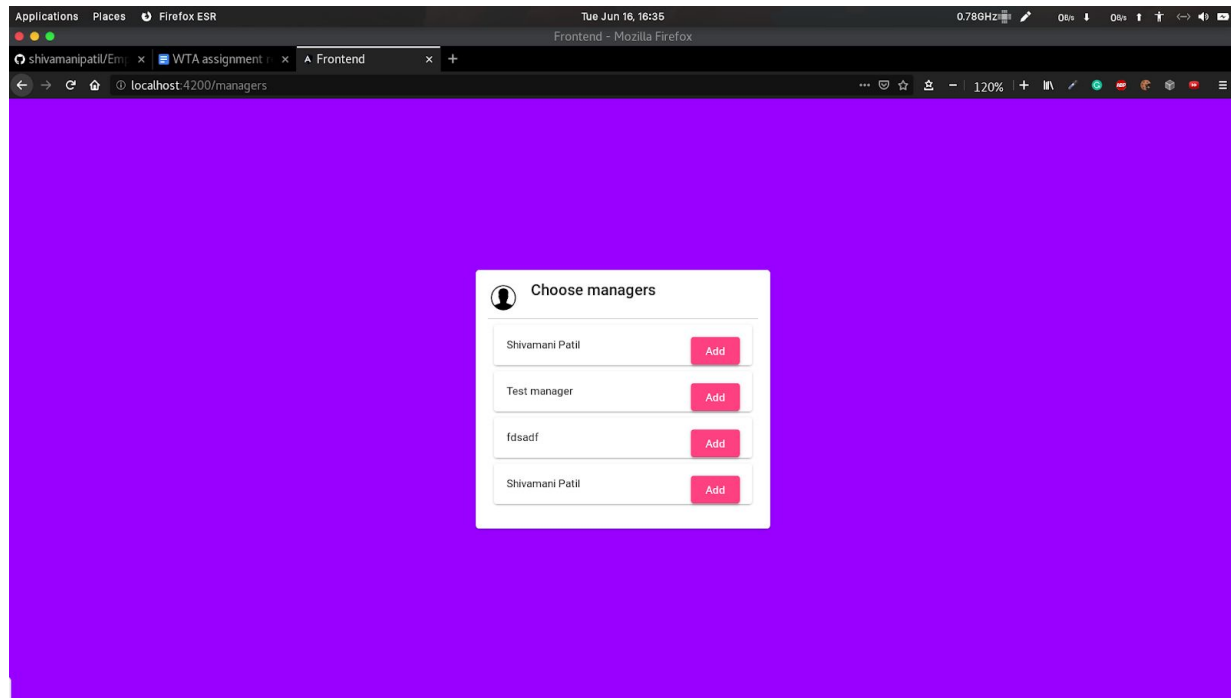
2. Profile - Manager - (with logout, basic info , view employees and list reviews) /Employee( logout , list reviews, write reviews and add manager)



a.



### 3. Employee Adding his manager



### 4. Writing/giving review/appraisal - by self and manager.

Applications Places Firefox ESR Tue Jun 16, 16:41 0.78GHz 4290v 4290v Frontend - Mozilla Firefox

Frontend x WTA assignment x +

localhost:4200/reviews/create/See8a72e9339c76549fad212/Shivamani P

Review for Shivamani P

name  
A 1

Eval criteria/question number 1  
2

Eval criteria/question number 2  
3

Eval criteria/question number 3  
2

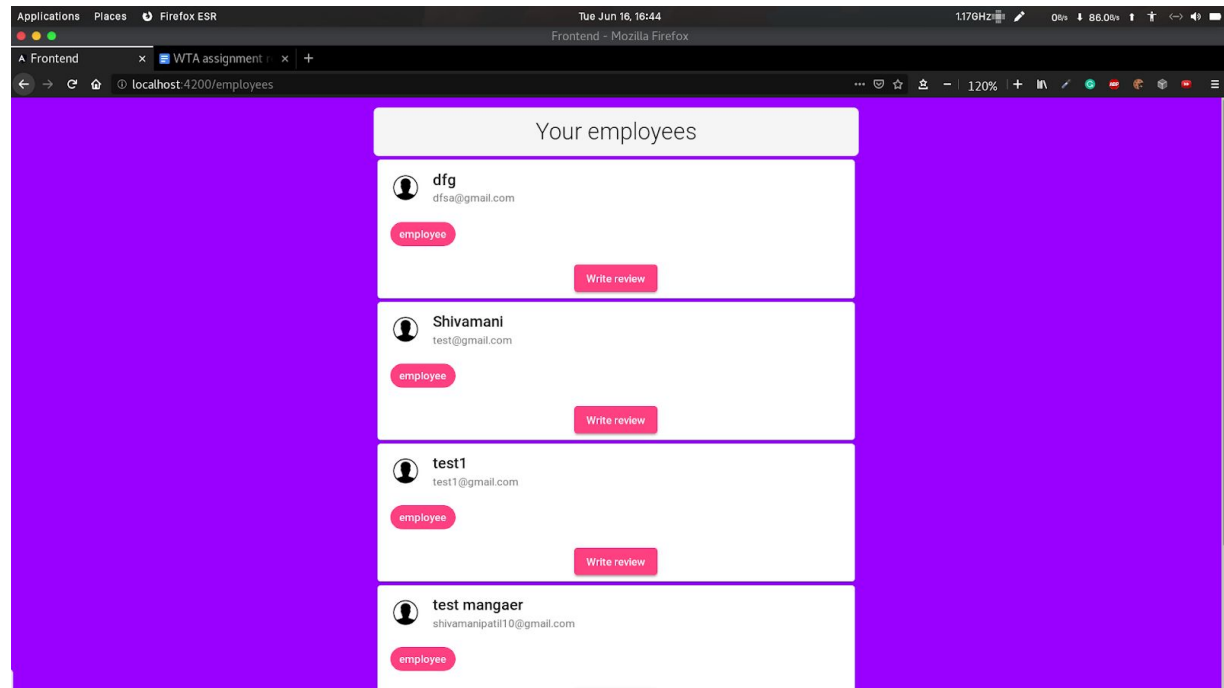
Eval criteria/question number 4  
2

Eval criteria/question number 5  
3

Submit

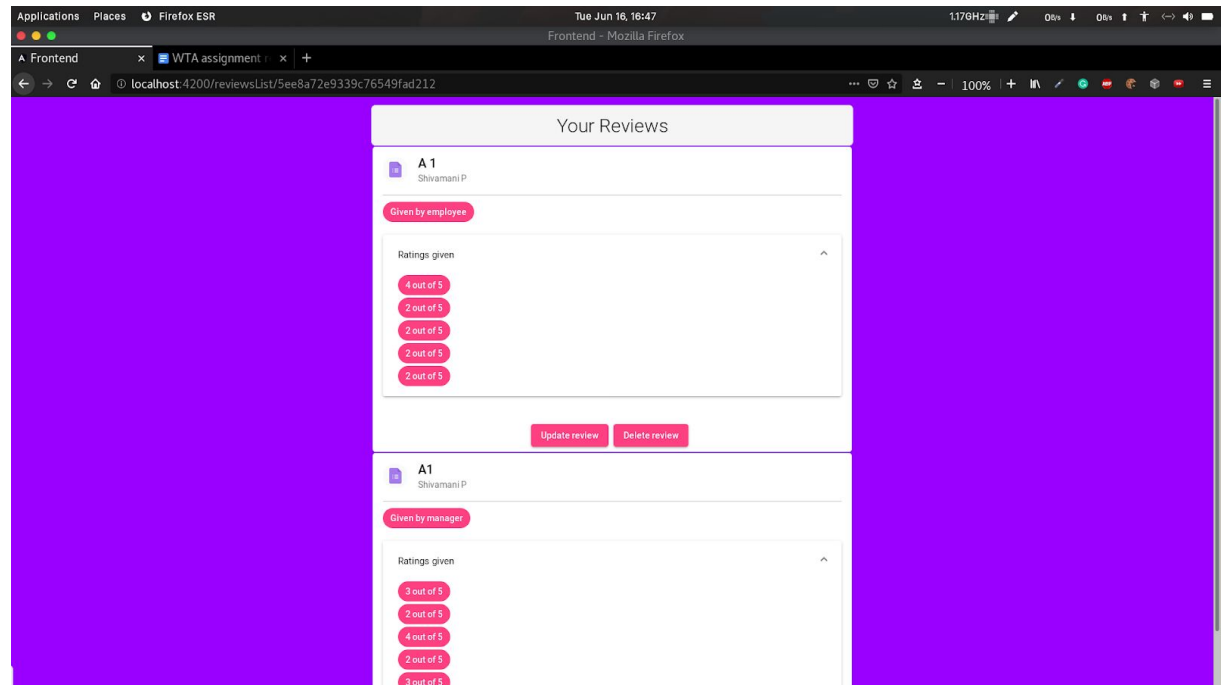
a.

5. Listing employees working for a manager with a write review option.

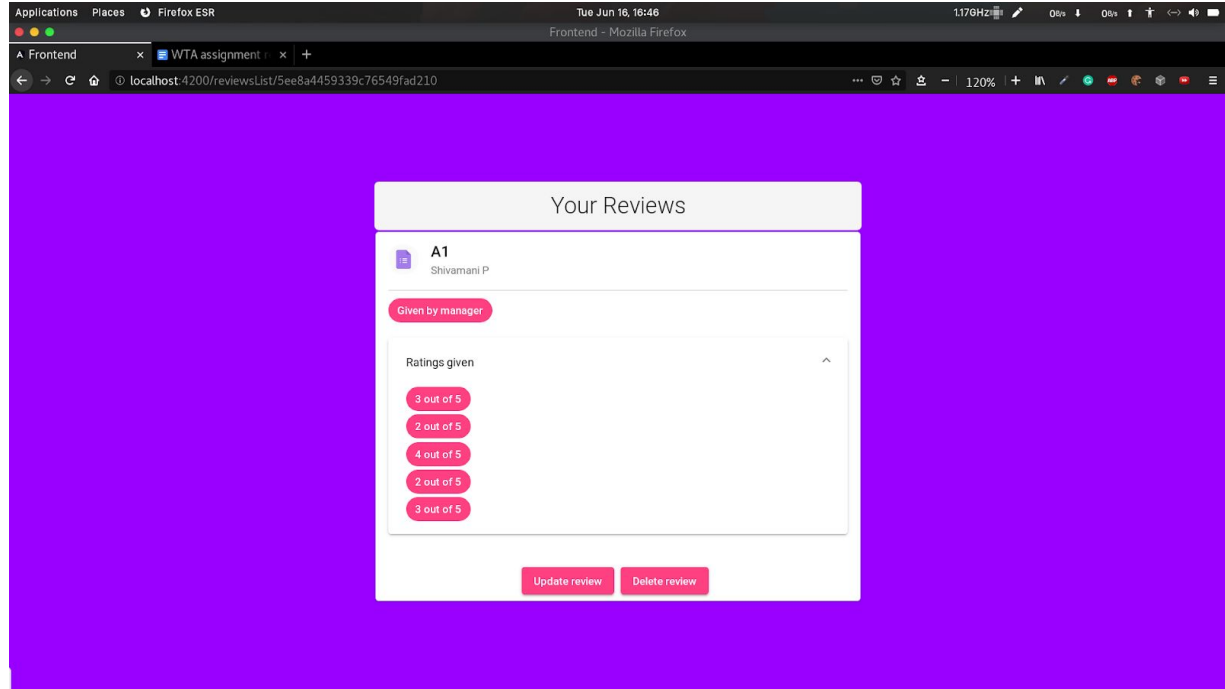


a.

## 6. Listing reviews given to employees and given by manager with update and delete review option.

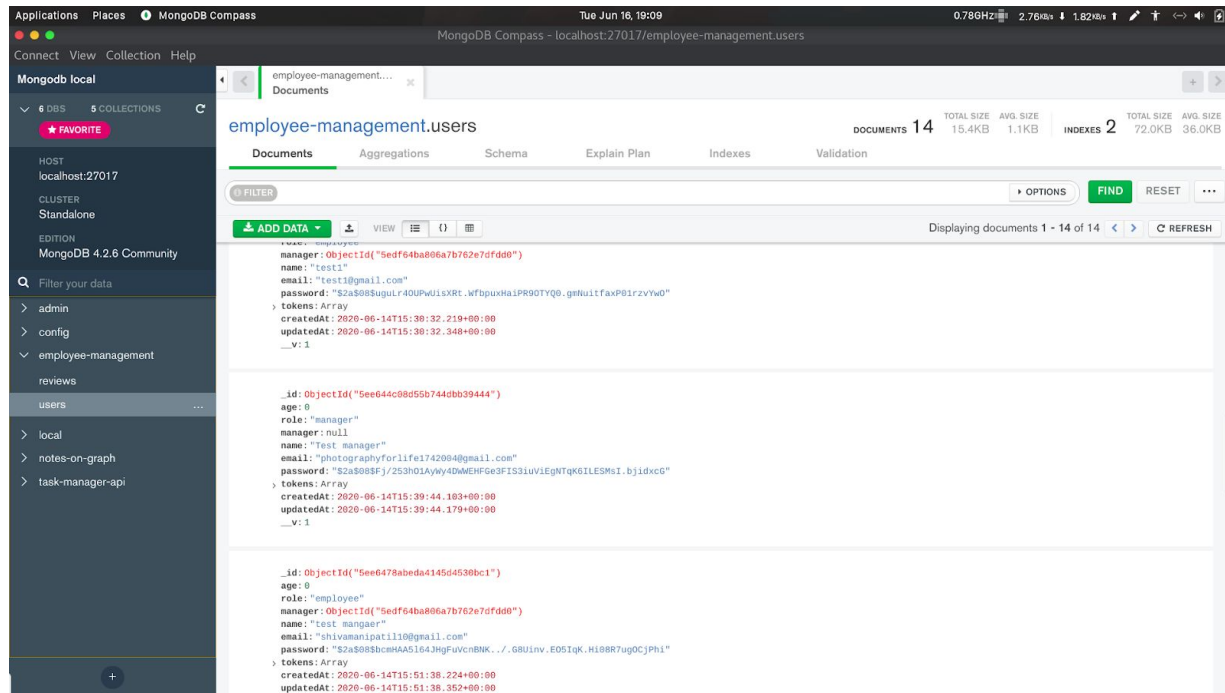


a.



b.

## 7. Database screenshots for reviews and user documents



a.



Applications Places MongoDB Compass Tue Jun 16, 19:09 0.78GHz 0s 0s

MongoDB Compass - localhost:27017/employee-management.reviews

Connect View Collection Help

Mongod local

8 DBS 5 COLLECTIONS

★ FAVORITE

HOST  
localhost:27017

CLUSTER  
Standalone

EDITION  
MongoDB 4.2.6 Community

Filter your data

- > admin
- > config
- ▼ employee-management
  - reviews
  - users
- > local
- > notes-on-graph
- > task-manager-api

employee-management.reviews

DOCUMENTS 7 TOTAL SIZE 1.3KB AVG. SIZE 196B INDEXES 2 TOTAL SIZE 72.0KB AVG. SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

0 FILTER

ADD DATA VIEW

Displaying documents 1 - 7 of 7

```
{
  "_id": ObjectId("5ee8a8ce9339c76549fad215"),
  "ratings": Array,
  "name": "A 1",
  "employee": ObjectId("5ee8a72e9339c76549fad212"),
  "designation": "employee",
  "givenBy": ObjectId("5ee8a72e9339c76549fad212"),
  "employeeName": "Shivamani P",
  "_v": 0
}
```

```
{
  "_id": ObjectId("5ee8aa219339c76549fad21a"),
  "ratings": Array,
  "name": "A1",
  "employee": ObjectId("5ee8a72e9339c76549fad212"),
  "designation": "manager",
  "givenBy": ObjectId("5ee8a4459339c76549fad210"),
  "employeeName": "Shivamani P",
  "_v": 0
}
```

```
{
  "_id": ObjectId("5ee8c543db2121161f53fa75"),
  "ratings": Array,
  "name": "review 2",
  "employee": ObjectId("5ee8c4a8db2121161f53fa71"),
  "designation": "manager",
  "givenBy": ObjectId("5ee8c470db2121161f53fa8f"),
  "employeeName": "Shivamani employee",
  "_v": 0
}
```

b.