

User Manual for PathTracker

Capstone Project – PathTracker (Job Application Tracker)

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1. Introduction

The Job Application Tracker with Calendar Integration is a full-stack web application designed to help users efficiently manage job applications, track their statuses, and schedule related events such as interviews or offer due dates.

2. System Requirements

Before using the application, ensure your system meets the following requirements:

Frontend Requirements:

- Browser: Latest versions of Chrome, Firefox, or Edge
- Angular CLI: Version 13 or later
- Node.js: Version 14.x or higher

Backend Requirements:

- Java JDK 11+
- Spring Boot Framework
- MySQL Server: Version 8.0+

3. Getting Started

To access and use the application:

1. Launch the Application:

- a. Open a browser and navigate to <http://localhost:3000> (Frontend).
- b. The backend server runs on <http://localhost:8081>.

2. Login:

- a. Use your username and password to log in.
- b. If you do not have an account, you can register and create an account in the register page.

4. Key Features

Dashboard Overview

- View a snapshot of upcoming events and job application statuses.
- Access **Quick Actions** to quickly add a job application, update status, or schedule an interview.

Managing Job Applications

- Add new job applications, including details like **Company Name, Job Title, Date Applied, Status, and Notes**.
- Update the status of existing applications.
- View recent applications and filter by status, date, or search query.

Managing Events in the Calendar

- Schedule events related to job applications (e.g., Interviews, Info Sessions, or Offer Deadlines).
- View events in a monthly calendar view.
- Update or delete events by clicking on them.

Editing User Information

- Edit personal information such as First Name, Last Name, Email, Address, and Phone Number.
- Update the password securely.

5. Using the Application

Submitting a New Job Application

1. **Access the Job Applications Page:**
Navigate to "My Job Applications" from the navigation bar.

2. **Click "Add Job Application":**

A form will appear.

3. **Fill in the Details:**

- a. Company Name
- b. Job Title
- c. Date Applied
- d. Status (select from dropdown)
- e. Notes

4. **Submit:**

Click "**Submit**" to save the job application.

Updating Application Status

1. **Go to My Job Applications.**
2. Locate the application you want to update.
3. Click on it to edit details.
4. Update the status or any other information.
5. Click "**Update**" to save changes.

Scheduling Calendar Events

1. **Go to "My Calendar".**
2. **Click on a Date:**
A form will appear to add an event.
3. **Fill in the Event Details:**
 - a. Event Title
 - b. Category (e.g., Interview, Info Session, Offer Due Date)
 - c. Event Date (pre-selected).
4. **Save Event:**
Click "**Save**".

To edit or delete an event:

- Click on the event in the calendar and choose "**Update**" or "**Delete**".

Editing User Information and Password

1. **Access the "Edit User" Page:**

Navigate to "Edit Profile" from the navigation bar.

2. **Edit User Information:**

- a. Modify fields such as First Name, Last Name, Email, Address, and Phone Number.

- b. Click "**Submit Changes**" to save updates.

3. **Update Password:**

- a. Enter a new password in the "New Password" field.

- b. Confirm the password in the "Confirm Password" field.

- c. Click "**Update Password**".

- d. You will see a confirmation message if successful.

6. Chrome Extension Guide

The Chrome Extension enhances the application by allowing users to quickly add job postings directly from their browser.

Installation Steps:

1. Download the Chrome Extension files (Extension/ folder).
2. Open Chrome and navigate to `chrome://extensions/`.
3. Enable **Developer Mode** in the top-right corner.
4. Click **Load unpacked** and select the downloaded Extension folder.
5. The extension will appear in the Chrome toolbar.
6. Make sure to be logged into the main dashboard in the same chrome session for the extension to be able to save the job application to the desired account.

How to Use the Chrome Extension:

1. Navigate to a job posting on Indeed or LinkedIn (without logging in to either).

2. Click the Job Tracker Extension icon.
3. A “Save job” popup will appear and to save the current job posting just click it.
4. If the job posting was saved successfully, you will receive a message and the job application will be automatically added into the my job application pages.

7. Troubleshooting

1. Unable to Load User Information

- Ensure the backend server is running.
- Verify the /user/details endpoint returns proper data.

2. Password Not Updating

- Ensure the "New Password" and "Confirm Password" fields match.
- Check the network console for errors.

3. Events Not Displaying in Calendar

- Verify that events are saved in the database and returned via the backend.
- Check browser developer tools for errors.

4. Job Applications Not Saving

- Ensure all required fields are filled.
- Verify the backend endpoint POST /job/createApplication is working.

5. Unable to save job application using Chrome Extension

- Ensure you are logged in to the main dashboard in the same chrome session and if you still receive a “Please log in to the dashboard first” then try logging in again.

- Verify your dashboard to see if the job applications are being saved correctly.

Appendix: Database Schema

statement to create the address table

```
CREATE TABLE `address` (  
  `id` int NOT NULL AUTO_INCREMENT,  
  `street` varchar(255) DEFAULT NULL,  
  `city` varchar(45) DEFAULT NULL,  
  `state` varchar(45) DEFAULT NULL,  
  `zipcode` int DEFAULT NULL,  
  `Country` varchar(45) DEFAULT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB AUTO_INCREMENT=14 DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;
```

statement to create the user table

```
CREATE TABLE `user` (  
  `user_id` int NOT NULL AUTO_INCREMENT,  
  `user_name` varchar(45) DEFAULT NULL,  
  `password` text NOT NULL,  
  `first_name` varchar(45) DEFAULT NULL,  
  `last_name` varchar(45) DEFAULT NULL,  
  `email` varchar(45) DEFAULT NULL,  
  `address_id` int DEFAULT NULL,
```

```
`phone_number` bigint DEFAULT NULL,  
PRIMARY KEY (`user_id`),  
KEY `address_id_idx` (`address_id`),  
CONSTRAINT `address_id` FOREIGN KEY (`address_id`) REFERENCES `address` (`id`)  
ON DELETE CASCADE  
) ENGINE=InnoDB AUTO_INCREMENT=13 DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;
```

statement to create the job_application table

```
CREATE TABLE `job_application` (  
  `application_id` int NOT NULL AUTO_INCREMENT,  
  `user_name` varchar(45) DEFAULT NULL,  
  `company_name` varchar(45) DEFAULT NULL,  
  `job_description` varchar(45) DEFAULT NULL,  
  `date_applied` varchar(45) DEFAULT NULL,  
  `status` varchar(45) DEFAULT NULL,  
  `notes` text,  
  UNIQUE KEY `application_id_UNIQUE` (`application_id`)  
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;
```

statement to create the event table

```
CREATE TABLE `event` (  
  `event_id` int NOT NULL AUTO_INCREMENT,  
  `user_name` varchar(45) NOT NULL,  
  `event_title` varchar(45) DEFAULT NULL,  
  `event_category` varchar(45) DEFAULT NULL,
```

```
`event_date` varchar(45) DEFAULT NULL,  
PRIMARY KEY (`event_id`)  
) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;
```