



# UE19CS204 – Web Technologies Mini Project

Project Title - Item price tracker

Section - C

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GITHUB Link -

<https://github.com/DevMashru/Web-Technologies>

# Abstract

The website we developed keeps track of the price of items on two of the most popular e-commerce websites, Amazon and Flipkart. A few popular items are tracked by default and the user is given the option to add many more items. Users add items to the database and a web-scraper fetches the prices from the websites every hour and updates the database. If the user wants to track an item that is already being tracked, he/she just needs to enter the item name and we automatically start tracking it for him/her. If the user had provided an email id during registration and set a threshold price, an email is sent to the user alerting him/her of the price drop. The user is additionally given an option to change his/her password and also delete the account. The website uses React for the front-end, express in the back-end and MongoDB as the database.

# Technologies Used

- React
- Node
  - Nodemailer
  - Cheerio
  - Bcrypt
  - Request
- Express
- MongoDB (MongoClient and Mongoose)
- Caddy
- Webpack

# Member Contributions

## 1. Dev

- Developed web-scraper.
- Developed front-end and back-end of the main table that displays the prices of tracked items and everything else related to the items and its price.
- Configured the server that hosts the website to the internet.
- Handled database and logic for sending emails.
- Configured the front-end server to handle server side rendering.
- Developed “Add items” component backend and API.

# Member Contributions

## 2. Ganesh

- Developed the main structure of the website
- Developed front-end and back-end of Account management
- Added styling to the website
- Created the function that sends e-mails
- Hashing and comparing passwords