

CS699 - Final Project Evaluation

Team Name - InvertedStack

Project Title - ReviewsX

Project Description - An advanced android note taking app with handy tools for researchers

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Motivation

- During RnD, you read a lot of papers and take notes of those for future reads
- You can probably use Google Keep ^[1] or Microsoft OneNote ^[2] for this
- But they aren't the greatest of the tools for the job – they don't support many rich text facilities such as
 - Maths
 - Code
 - Markdown
- Often these apps will also need internet
- There's also no in-built way in Google Keep / Microsoft OneNote to look at reviews of the paper from a site such as OpenReview

We want to build an app that addresses all of these issues

Problem Statement and Deliverables

Build a note taking app that -

- ① Runs offline ✓
- ② Supports math, code and markdown notes ✓
- ③ Allows the user to favourite some of the notes ✓
- ④ Allows viewing and downloading papers and discussions from OpenReview ✓
- ⑤ Supports collections of papers ✓
- ⑥ Supports reading lists – currently reading, already read and wishlist ✓

Deliverables

- Server - capable of scraping the data from OpenReview for a given conference and serving the data to the android app ✓
- Android app - with all the features stated above ✓

Initial Proposed Timeline

- 29 Sept - 6 Oct : Scraping data of few conferences (e.g. ICLR 2021)
- 6 Oct - 13 Oct : Generalizing web scraping for other conferences
- 13 Oct - 20 Oct : REST API development
- 20 Oct - 27 Oct : Integrate android app with REST APIs
- 27 Oct - 3 Nov : Finish implementing other features in android app and polishing the android app

Revised Timeline and Progress

- 29 Sept - 6 Oct : Scraping data of few conferences (e.g. ICLR 2021) ✓
- 6 Oct - 13 Oct : Generalizing web scraping for other conferences ✓
- 13 Oct - 20 Oct : REST API development and Android app integration ✓
- 20 Oct - 27 Oct : Finishing touches ✓

ReviewsX

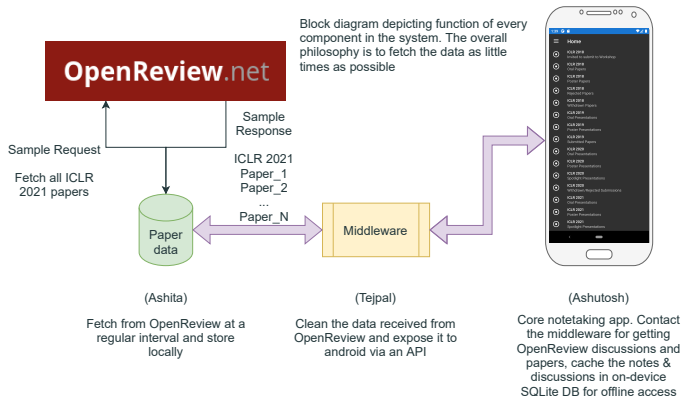


Figure 1: Working of the project ¹

¹Demo video - <https://drive.google.com/file/d/16JtEyrpYGaaKC79AILfzLtQiep7V7YI/view?usp=sharing>

Work Distribution

- Scraping the data off of OpenReview - Ashita
 - Scraping openreview.net for all ICLR conferences.
 - Extracting all papers for all categories and comments from discussion forums.
 - Making the scraping configurable and extensible to other conferences as per requirements.
- Middleware and server management - Tejpalsingh
 - Creation and hosting of APIs to serve the requests to the Android App.
 - Preprocessing and cleaning up of data catering to the needs of the frontend.
 - Handling non-existent data that might be required by Android app cleanly.
- Android app - Ashutosh
 - Core markdown rendering functionality on Android.
 - Conference agnostic interface with middleware.
 - Efficient on-device storage using SQLite DB.

Thank You



Google.

Google Keep.

<https://keep.google.com>.



Microsoft.

Microsoft OneNote.

<https://www.microsoft.com/en-us/microsoft-365/onenote/digital-note-taking-app>.