

FS Task 3

Stack Requirements:

1. Angular Version 19
2. AG Grid C AG Charts (33.0)
3. Angular Material
4. Angular Material Icons
5. Node v22

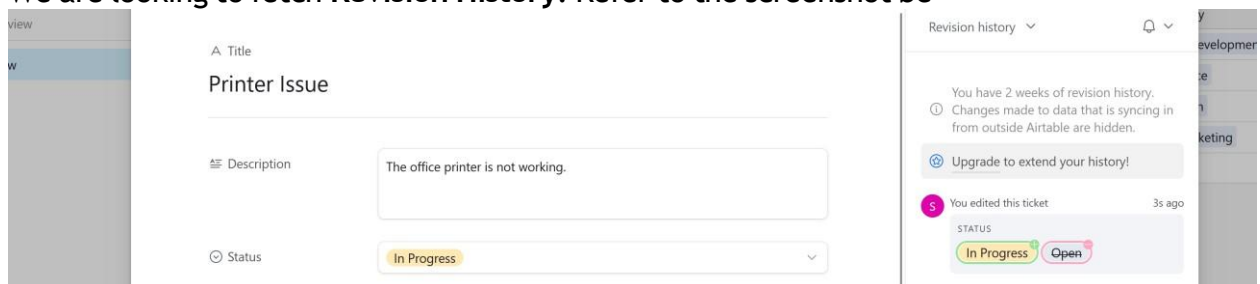
Technical Details:

Part A:

- We need to create an integration for Airtable
- Here is the documentation: <https://airtable.com/developers/web/api/introduction>
- Build OAuth Authentication.
- We need to fetch the following endpoints: (BaseURL: <https://api.airtable.com/v0>)
 - o Projects (bases) : /meta/bases
 - o Tables (tables): /meta/bases/{baseId}/tables
 - o Tickets (pages): /{baseId}/{tableId}
 - o Users: /Users
- We need only need to focus on the above endpoints and store all the pages in a separate MongoDB collection. (Important: Make sure to use Airtable API Pagination)

Part B:

- Once we can fetch all the above endpoints, we need to write a Custom Scraping Method for changelogs.
- We are looking to fetch **Revision History**. Refer to the screenshot be



- We need to write a custom scraping method that should work as follow:
 - o We need to automatically retrieve the Cookies from Airtable so we can pass the cookies to the Revision History endpoint (i.e /readRowActivitiesAndComments)
 - o We need to ability to check if the cookies are valid.

- We need to fetch Revision History for each task that we have fetched earlier using the API.
- The Revision History response is in HTML, we need to parse the response into the following format before storing it to the database:

```
{
  uuid: activityId,
  issueId: ticketId,
  columnType: columnType,
  oldValue: oldValue,
  newValue: newValue,
  createdAt: new Date(activityData.createdAt),
  authoredBy: activityData.OriginatingUserId,
}
```

- Once we are able to fetch the Revision History, store it in the database.
- You will need to test this with atleast 200 Pages and make sure the revision history is retrieved.
- **Important: In the Revision History: We are looking for Assignee and Status Changes**

⌵ Status ⌵	🔍 Assignee ⌵
In Progress	S SRED.io Integration
In Progress	S SRED.io Integration
Closed	
Closed	

- We need the Custom Scraping Method to automatically retrieve the cookies and pass it to the Airtable Integration Service to get the Revision History for each ticket (page).
- It is important to check if the cookies are valid or not. This can be done by making a request to the endpoints and if the cookies are expired we need to redo it.
- We also need to have the ability to pass the MFA Code from the frontend so we can easily get the cookies and run the Custom Scraping Method.