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Associate Software Developer Intern

14th November 2024



# Agenda

- Introduction
- Project Details
- Theoretical Background
- Methodology Followed
- Data Collection and Analysis
- Key Suggestions and Learnings



## Theoritical Backgroudn

Me



#### My Team



#### Cruise RMS

- Part of the Cruise RMS team.
- Finished an Angular Training at work.
- I intend to also work in making the UI as soon as we finish training.

- My team consists of Arun Pratap Singh, Harekishan Shivnani, Sunanda DuttaSen, Rajendra Mulgali and Omkar Chogale
- My Mentor and manager is Mr. Harekishan Shivnani.

- We are developing a new Product for IDeaS
- It involves Forecasting revenue for Cruise Companies.



## Cruise RMS

#### **Backend**

- File Processing
- Java Spring

#### **Database**

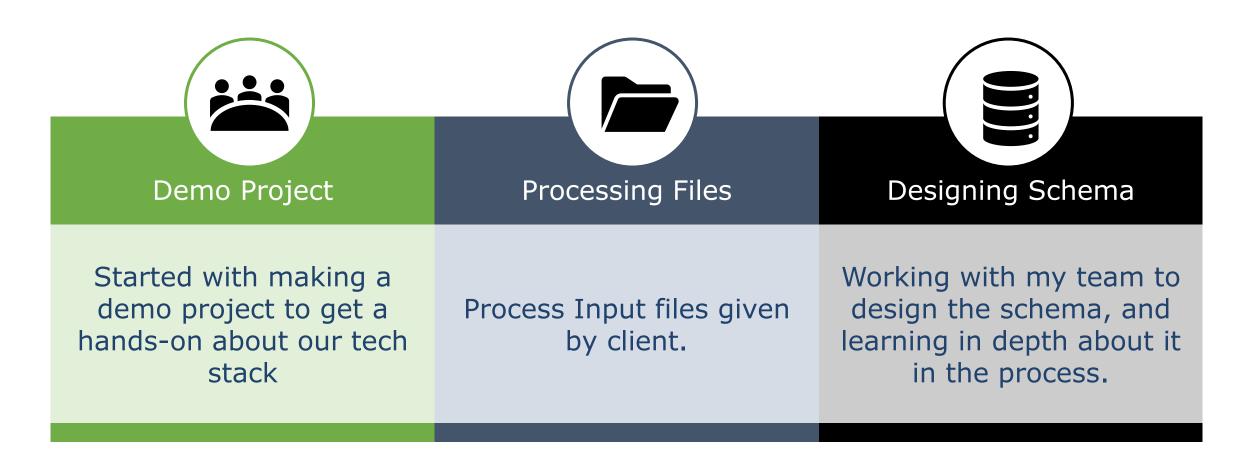
- Postgres Docker Containers
- Relational

#### **Frontend**

- Angular
- Design process ongoing in Figma

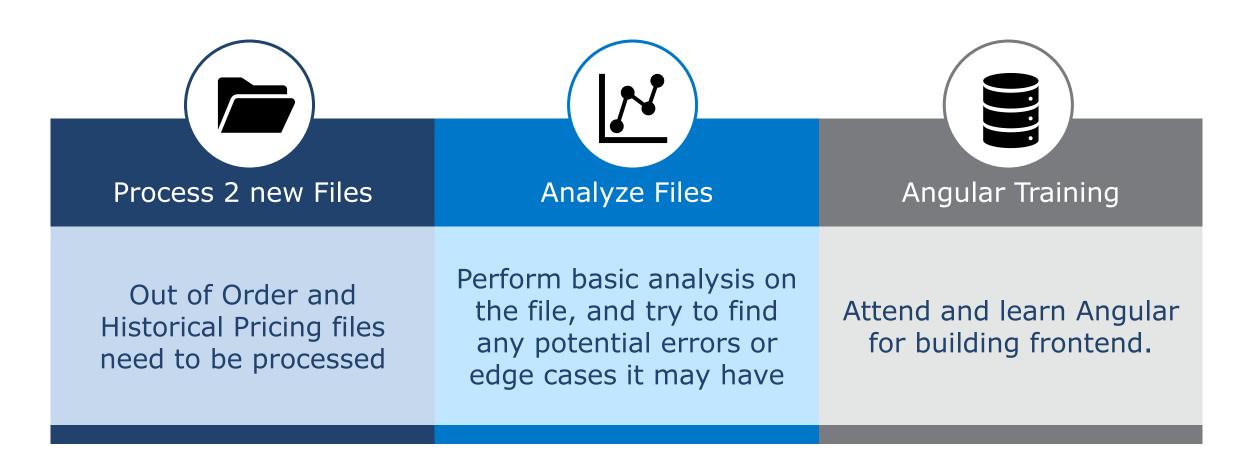


## Tasks Completed Till Date – Month 1



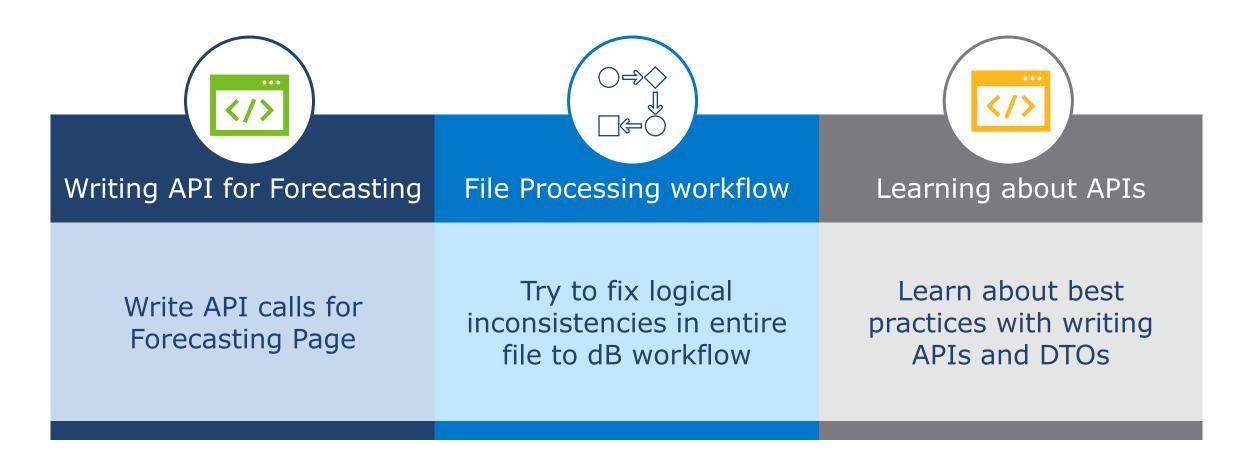


### Month 2



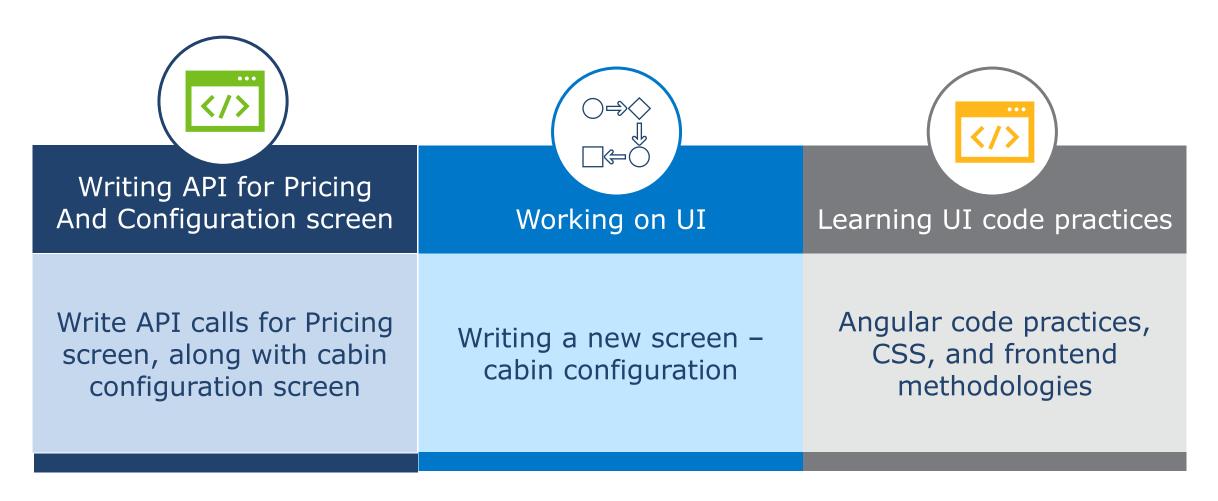


### Month 3





#### Month 4

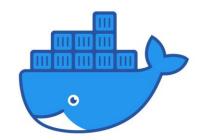


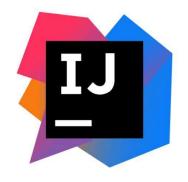










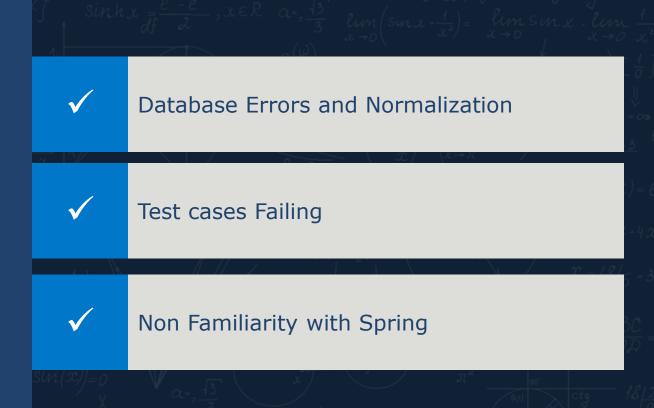




Software and Applications Used

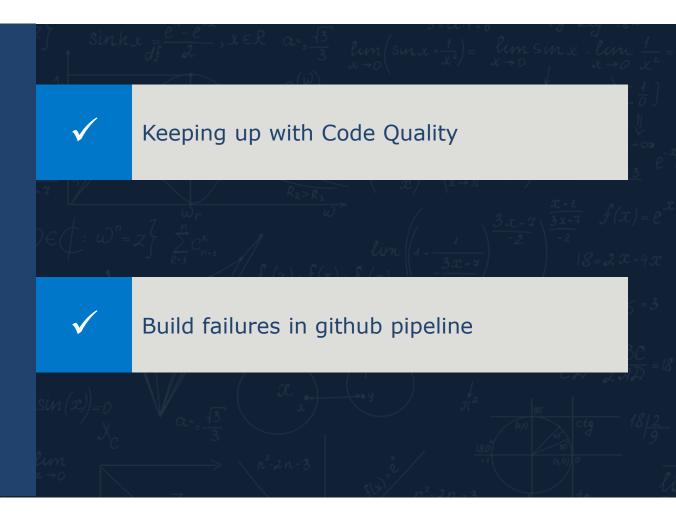






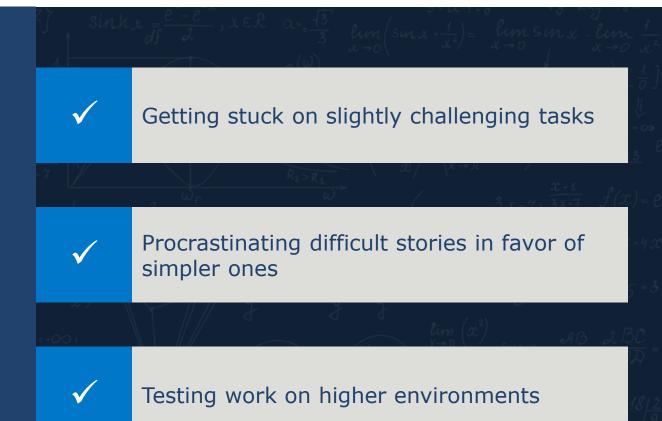












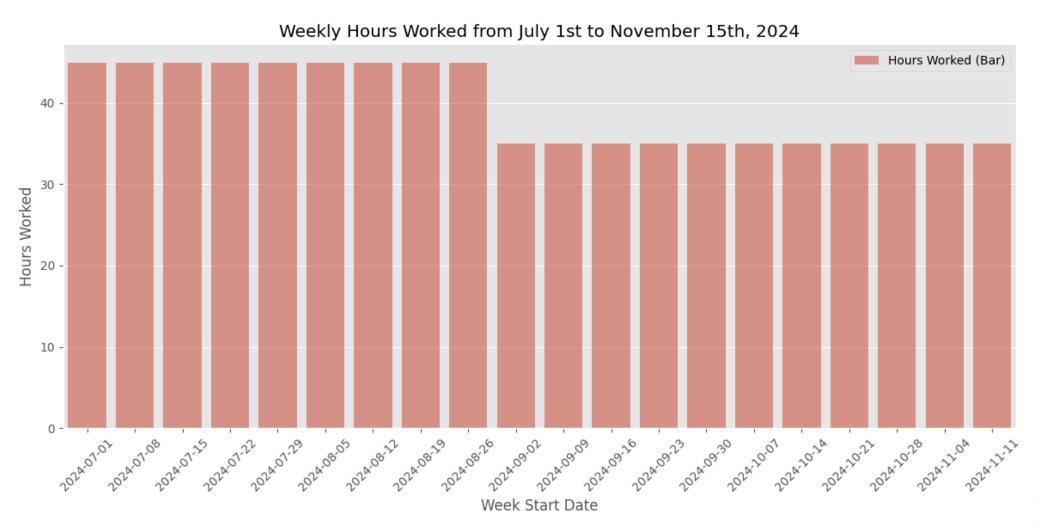






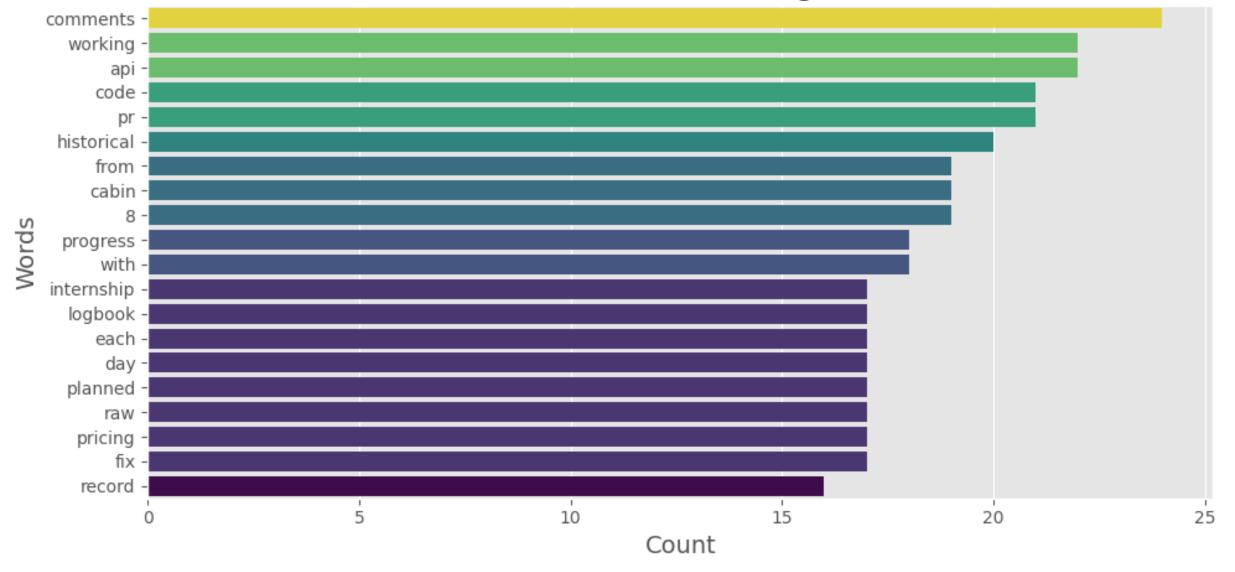


## Data Collection and Analysis





#### Word Occurrences in Log Book

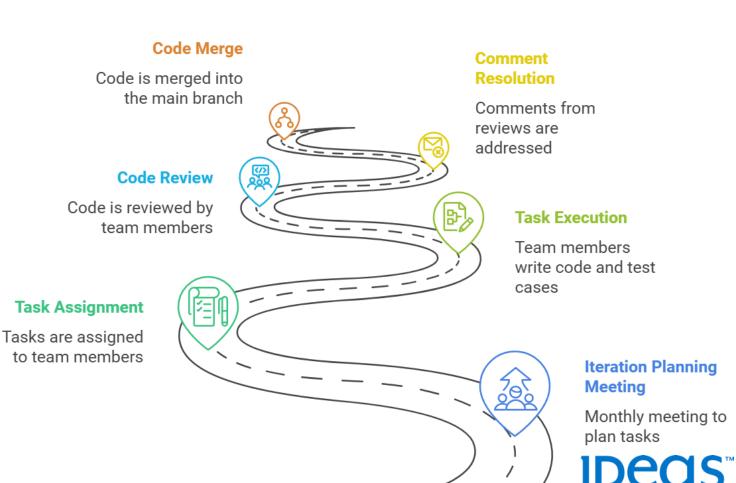




## Working Methodology

- 1. A task is planned in a meeting held every month Iteration planning.
- Several tasks or stories are assigned to you in this meeting of your choice.
- 3. You then pick them up on a daily basis, write code for it, and then write test cases.
- Upon finishing the "story" or task, this goes into code review and is reviewed by team members.
- 5. Their comments on such reviews are resolved.
- Work of that story is considered done, when your work is merged.

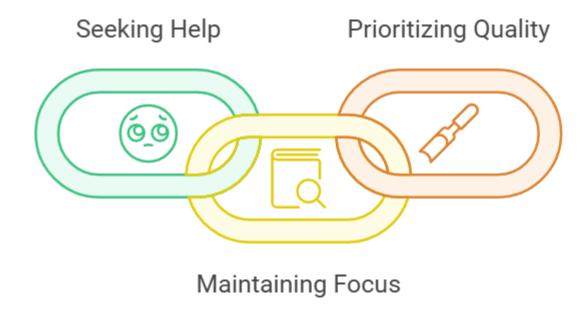
Software Development Iteration Process



A **Sas** COMPANY

## **Key Suggestions**

- 1. Do not get stuck on complicated tasks, take help and move on.
- 2. Do not get distracted from one task to another.
- 3. Try to focus on assuring better quality of code rather than rushing to completion.





## **Technical Learnings**

- 1. While seemingly obvious, simpler solutions to problems are better than more complex ones.
- Its important to know what each line and function of your code does. You can work without this too,
  just not as efficiently.
- 3. Indexes are more important in sql than we give them credit for. They are a topic worth learning deeply about.

#### 4. Best Practices:

- 1. Use constants on left side of your "=" in if statements.
- 2. Use .equals or such function wherever you can as opposed to symbols.
- 3. Use objects instead of primitive values. They are null safe.
- 4. Try to use immutable types wherever you can.



## Technical Learnings

- 1. When a lot of files are conflicting, instead of getting frustrated, its best to resolve it with patience, than losing it. A few patient minutes can avoid hours of work later.
- 2. Test your work on dev and higher environments before marking it as done.
- 3. Use sonar cloud, and other warnings and code checks intellij offers.
- 4. When writing questionable code, try to write it as close to origin of data as possible. That makes it easier to debug.
- 5. In using a relational database, normalization is preferred over slight complexity. Simple queries are better than joins, even if you have to make a few tables for it.



## Personal Learnings

# Concise Communication

Delivering succinct messages improves understanding.

# Meeting Preparation

Preparing for meetings enhances clarity and focus.



#### **Patience**

Patience fosters understanding and collaboration.

