



INTERNSHIP REPORT

Rajat Naik

1939

**REPORT OF INTERNSHIP DONE AT
INBETWEEN SOFTWARE DEVELOPMENT PVT.
LTD.**

SUBMITTED BY:

Rajat Naik
1939

UNDER THE GUIDANCE OF

Ms. Deeksha Mulgaonkar
(Senior Web Developer)



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May 31, 2022

To Whomsoever It May Concern

This is to certify that Mr. Rajat Naik is undergoing industrial training as an intern at InBetween software development private limited since january 10, 2022 to expected date of completion july 8, 2022 under the guidance of Ms. Deeksha Mulgaonkar, web architect.

The details of his internship with InBetween software development private limited is given below:

Project title: "Job automation project and Publication wizard"

Tasks handled -1) Bug fixing
2) Responsiveness
3)Handled Functionality using Angular

For InBetween Software Development Pvt Ltd

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GOA BUSINESS SCHOOL

CERTIFICATE OF EVALUATION

This is to certify that Mr. Rajat Naik has been evaluated for the project work titled "Report of Internship done at InBetween software Development Pvt Ltd" undertaken at , Goa in partial fulfilment for the award of the degree in Master of Computer Application.

Examiner 1

Examiner 2

Place: Goa University

Date:

Dean, Goa Business School

Acknowledgement

Interning in a company is a golden opportunity for learning and self-development specially to have so many wonderful people led me through this internship period. The internship wouldn't be complete without expressing my gratitude and appreciation to all the people who made it possible. I would like to thank Mrs. Niveditha Praveen (Director, InBetween) for giving me the opportunity to intern at InBetween. My sincerest gratitude to Ms. Deeksha Mulgaonkar (Web Architect, InBetween) and Mrs. Priyanka Arundekar (Web Developer, InBetween) for being my mentor and giving me the necessary guidance and support. My great appreciation to Mrs. Niveditha Praveen (Director, InBetween) for pushing me to the limits in order to enhance and polish my skills. I would like to extend my gratitude to Mrs. Rebecca (HR, InBetween) for being my friend and always helping me out whenever I was in dire need. I would like to thank Mr. Sahil Narvekar (Quality Analyst, InBtween), who being my senior in college made me feel comfortable in a new environment and for continuously mentoring me in the technologies I was working in. I thank Mr. Ramdas Karmali (Prof. and TPO, MCA, Goa Business School, Goa University), Ms Jyoti D.Pawar (Program Director, MCA, Goa Business School, Goa University), Mr. Jarret Stevan Anthony Fernandes (Assistant Prof, MCA, Goa Business School, Goa University), Ms Preeti Khorjuvekar , MS Payaswini and all the faculty of MCA, Goa University for their constant encouragement and support during the project work. Finally, I would like to express my gratitude towards the InBetween family who were always ready to help me and guide me in all aspects of life. They have transformed me into a new and renewed person ready to face head-on any challenges that come my way.

-Rajat Naik

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Introduction

This report is a short description of my full-time on-site internship at InBetween, Goa. I joined as an Intern at InBetween on 10th January 2022 and have been here since then. This report contains necessary information about the organization, the projects I worked on and the other bugs and trainings I completed in this internship period. In the chapters that will follow, I will talk about the company, the work here, the culture, etc. Then, I shall elaborate on the projects I worked on, a brief information about the projects, the modules I built and the tasks I completed in those modules. This report highlights my learning experience and my contributions to the organization as an intern. This will describe the knowledge that I gained by successfully completing the tasks that were assigned to me. I'll also be talking about the tools and technologies that were used followed by my internship timeline. I shall conclude by sharing my experience and how it has helped me to grow, both, on the personal and professional front.

Company Profile

InBetween Deutschland GmbH is a global leader in Database Publishing solutions. 30 years InBetween has been synonymous with high performance dynamic and database publishing. The standard software InBetween is able to create catalogues, brochures, datasheets, price lists, and many more types of media in a rule-based, automated, and format-independent manner and in a variety of outputs formats. With InBetween, your publications for marketing, sales as well as your technical documentation can be created more easily, faster, and more efficient throughout the entire company. You are not only saving a lot of time and money but also nerves.



As an owner-managed company, we put great emphasis on a long-term value- and profit-oriented investment and growth strategy. Therefore, strong cooperation with our partners plays a key role in our expansion and for building up an international presence. With our competent marketing-, sales- and support team headquartered in Stuttgart and an extensive partner network on several continents, we are able to offer you all the advantages of an efficient publication process as well as related services anywhere you want.

Our top-class development team at InBetween Software Development Pvt Ltd in Goa makes sure your requirements and our own ideas regarding new functions will be put into action. Through

our software maintenance customers regularly receive enhanced and improved software versions. Because the further development of a software is just as important as what you buy today.

More than 200 companies worldwide across over 100 industries already benefit by using the database-supported cross-media publishing provided by the market leader, InBetween. Our knowledge of the special requirements in the various branches and continuous further development of InBetween made this success possible. Today, InBetween is a mature technological standard solution for all aspects of modern database and Dynamic-Publishing.

Projects

Job Automation

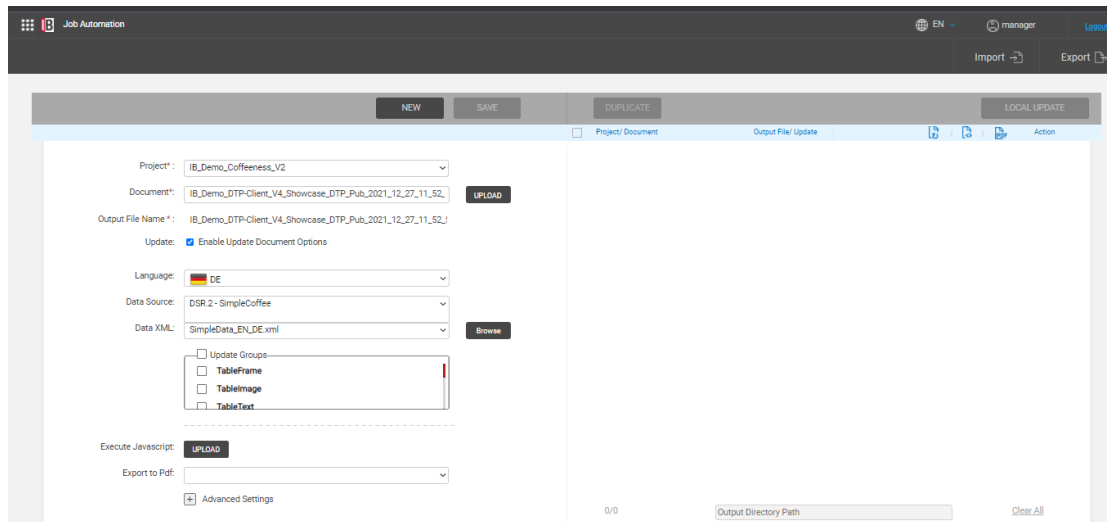
Job automation is implemented to provide a user interface to the user to easily create one or more jobs and schedule them.

Currently, job automation can be done only using local InDesign client and not using InDesign server installed at server.

Instead of manually creating scheduler file, user can now create any number of jobs and schedule them on single click.

User can easily create, edit, duplicate and delete job.

Save the job by exporting the existing job on your system and import the same jobs later when required



Tools and Technologies Used:

- ◆ Angular 9
- ◆ HTML, CSS and Bootstrap
- ◆ SVN
- ◆ Material UI
- ◆ Gradle

My Contribution:

I am assigned to the project Job Automation as front-end developer. At the time of joining the project was already developed and most of features of the project were completed and running. I was given some tasks to be worked on them

- ◆ Understanding the code structure of the project
- ◆ To Improve the UI.

◆ Increase ease of use, add new features.

◆ Fix bugs in the application.

My Detailed Contribution

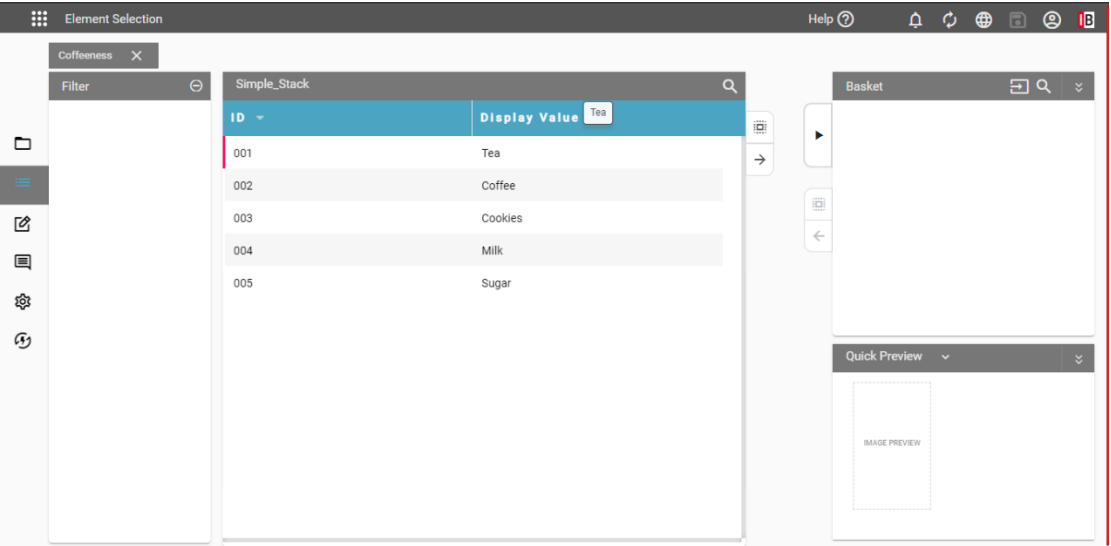
- Improved the UI of the Project, made changes to the UI according to the designs provided by the UI designer.
- Worked on the Upload progress bar dialog box.
- Fixed the bug where the uploaded xml file was not getting applied to the updated document.
- Implemented the functionality for JS file selection for local update
- Fixed UI issues on Firefox and safari browsers

Publication Wizard

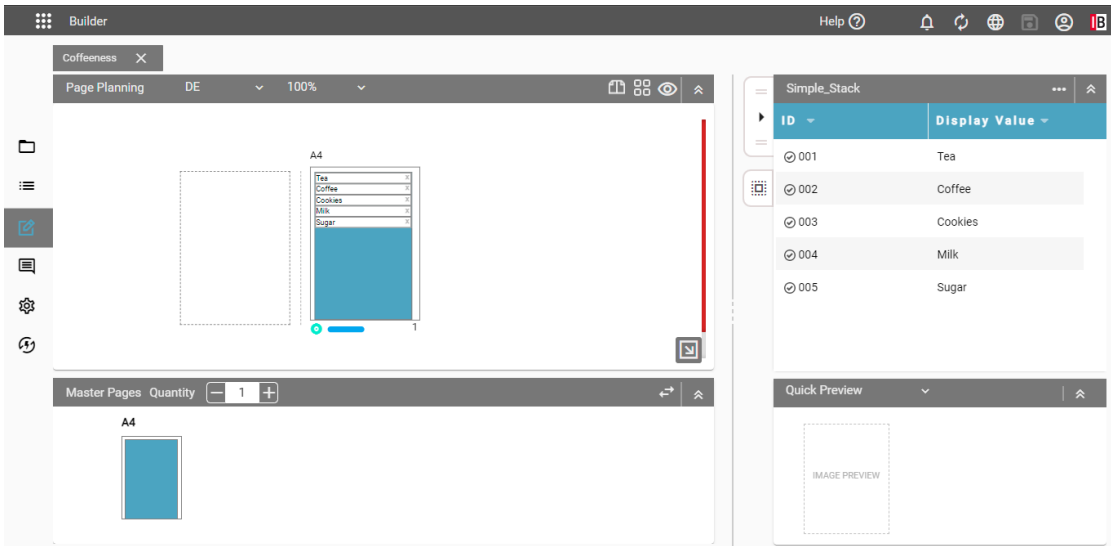
Publication wizard is a UI Client which allows the user to open publication and edit it, duplicate publication, create new publication, modifying pages, convert the page into indesign , change data source etc.

User can even generate pages into different output formats, just like Desktop app, Project Editor. Multiple pages generations are possible too.

Element selection tab



Builder tab



Settings tab

Generate Tab

Tools and Technologies Used:

- ◆ Angular 9
- ◆ HTML, CSS and Bootstrap
- ◆ SVN

◆ Material UI

◆ Gradle

My Contributions

I was assigned to the project as front-end developer. At the time of joining the project was already developed and most of features of the project were completed and running. I was given some tasks to be worked on them

- ◆ Understanding the code structure of the project
- ◆ Fix bugs in the application.

My Detailed Contribution

- Worked on the responsiveness of the auto sort bar.
- Fixed some UI issues.
- Worked on the UI, selected elements should be highlighted differently.

Technologies used



Angular

Angular is an application design framework and development platform for creating efficient and sophisticated single-page apps.



Jira

Jira is a proprietary issue tracking product developed by Atlassian that

allows bug tracking and agile project management.



Redux

Redux is an open-source JavaScript library for managing application state. It is most commonly used with libraries such as React or Angular for building user interfaces.



TypeScript

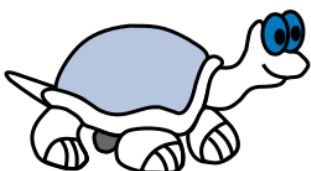
TypeScript is an open-source programming language developed and maintained by Microsoft. It is a strict syntactical superset of JavaScript and adds optional static typing to the language. TypeScript is designed for development of large applications and transcompiles to JavaScript.



SonarQube

SonarQube is an open-source platform developed by SonarSource for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells, and security vulnerabilities on 20+ programming language

Tortoise SVN



TortoiseSVN is a really easy to use Revision control / version control / source control software for Windows. It is based on Apache™ Subversion (SVN)® ; TortoiseSVN provides a nice and easy user interface for Subversion. It is developed under the GPL. Which means it is completely free for anyone to use, including in a commercial environment, without any restriction. The source code is also freely available, so you can even develop your own version if you wish to.



Gradle

Gradle is an open-source build automation system that builds upon the concepts of Apache Ant and Apache Maven and introduces a Groovy-based domain-specific language instead of the XML form used by Maven for declaring the project configuration.



npm

npm is a package manager for the JavaScript programming language. It is the default package manager for the JavaScript runtime environment

Node.js

[Project timeline/Project diary](#)

JAN 2022

Week 1:

1. Formal Orientation and on-boarding process.
2. Knowledge Transfer sessions on InBetween Software.
3. Knowledge Transfer sessions on Web based Clients

Week 2:

1. Generated files in different formats using InBetween project editor.
2. Knowledge transfer sessions on Jira.
3. Created first ticket on Jira

Week 3:

1. Generated files in different formats using InBetween publication wizard, URL generator.
2. Knowledge transfer sessions on Batch clients, and how they work.
3. Knowledge transfer sessions on Gradle.

Week 4:

1. Knowledge transfer sessions on Publisher and Admin.
2. Knowledge transfer on best web practices and how to write code efficiently, considering the time complexity.
3. Knowledge transfer sessions on Tortoise SVN, how to commit the code in branch, how to resolve the conflicts and other features of Tortoise SVN

FEB 2022

Week 1:

1. Started learning angular, created tower of heroes app.
2. Got in depth knowledge transfer sessions on Publication Wizard.
3. Solved some bugs of Publication Wizard

Week 2:

1. Started working on responsiveness of sort bar option of Publication Wizards
2. Committed some code of the bugs which were solved in previous week
3. Started working on another bugs.

Week 3:

1. Continued working on the responsiveness of sort bar option of Publication Wizards
2. Solved a UI issue of Publication wizard
3. Started Working on the Job Automation UI improvement ticket

Week 4

1. Continued working on Job Automation UI improvement ticket, Implemented the upload progress dialog box.

March

Week 1

1. Continued working on Job Automation UI improvement ticket, got the UI changes reviewed by UI designer.
2. Analysed the issue in the job automation local update behaviour.
3. Continued working on the auto sort bar responsiveness ticket after the blocking issue for that ticket was solved.

Week 2

1. Worked on the Job Automation UI implementation new changes.
2. Worked on responsiveness of auto sort options bar

Week 3, Week 4

1. Worked on the bug, output directory path behaviour is not correct
2. Spoke with backend developer and found that backend and DTP side changes were required, so created the tickets.
3. Went through the code to find the cause of the issue where the uploaded xml file was not getting applied to the local update in Job Automation

April

Week 1, Week 2

1. Worked on the bug where outputs are not saved in the changed directory path in Job Automation

Week 3

1. Worked on the IBSSO customization

2. Worked on Job automation broken “uploaded JS file list” UI

Week 4

1. Continued working on IBSSO modifications
2. Worked on Job Automation UI issues for edge and Firefox browsers

May

Week 1

1. Worked on Job Automation JS file selection
2. Worked on IBSSO modifications

Week 2, Week 3

1. Worked on the Publication wizard UI improvement, selected items in publication wizard should be highlighted differently
2. Worked on Job Automation outputs are not saved in changed directory path

Week 4

1. Worked on bug issue Job Automation document is not getting updated using the uploaded data xml
2. Worked on the issue outputs are not saved in the changed directory path.

June

Week 1

1. Worked on the ticket JS file selection not working
2. UI issues on Firefox and safari browsers.

My Learnings

My internship at InBetween Software has been a wonderful and interesting experience

- This internship helped me turn my theoretical knowledge in practical use.

- Working in a team helped me understand team work better.
- It was great opportunity for me to learn new technologies.
- Working with the team helped me to learn more about the technologies and the development process.

References

- www.w3schools.com
- www.stackoverflow.com
- www.angular.io
- www.material.angular.io