



# INTERNSHIP REPORT

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<b>Project Organization:</b>	Tata Consultancy Services
<b>Project Title:</b>	Research Workflow Tool
<b>Duration:</b>	6 Weeks
<b>Project Supervisor:</b>	Mr. Aniruddha Mukherjee Mr. Souvik Saha

Project Head

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# INTRODUCTION

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This Internship is an integral part of my Computer Science and Engineering Program. I am thankful to Tata Consultancy Services, Kolkata to give me an opportunity to work within the organization and get an in-depth look at the inner working of such an IT giant. Books can only provide with a virtual knowledge and give an idea of how work will be done. But an Internship such as this is an integral part in the overall development and preparation for a student in facing life after his studies. It gives a pragmatic look at the research and development of projects. Such knowledge cannot be gained from books. This needs to be experienced for oneself.

# ABOUT THE PROJECT

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The Project I worked on was a 'Research Workflow Tool'. Workflow is the sequence in which a work is carried out from initiation to completion. Thus the Research Workflow Tool is a tool to ensure that the sequence of a research work is carried out in the most efficient manner.

The tool I worked on is an online tool where an end user can request a research work, research managers can delegate the work to different research analysts or vendors and on completion send it to the manager and finally to the end user. The Tool employs a Client-Server based Architecture.

As said above, this tool employs 4 actors – End User(EU), Research Manager(RM), Research Analyst(RA) and Vendor. The picture is such that there exists several RMs and under each RM there can be one or more RAs. The RM and RA will be from one organization. The only 3<sup>rd</sup> party actors are the EUs and the Vendors.

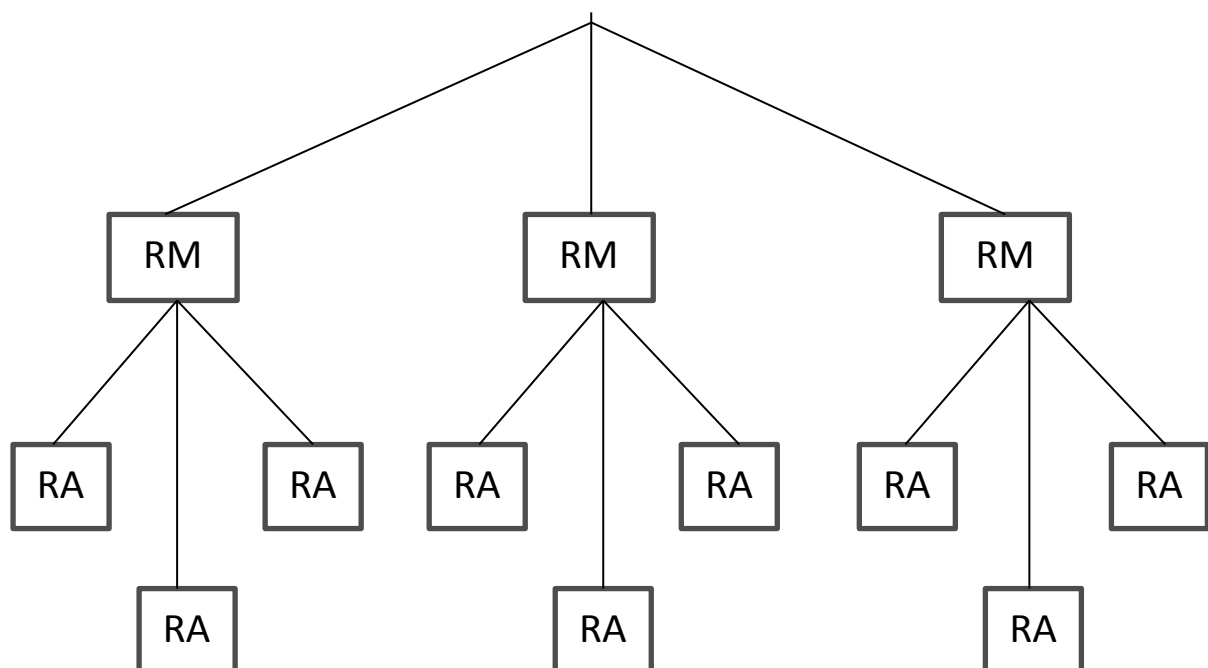
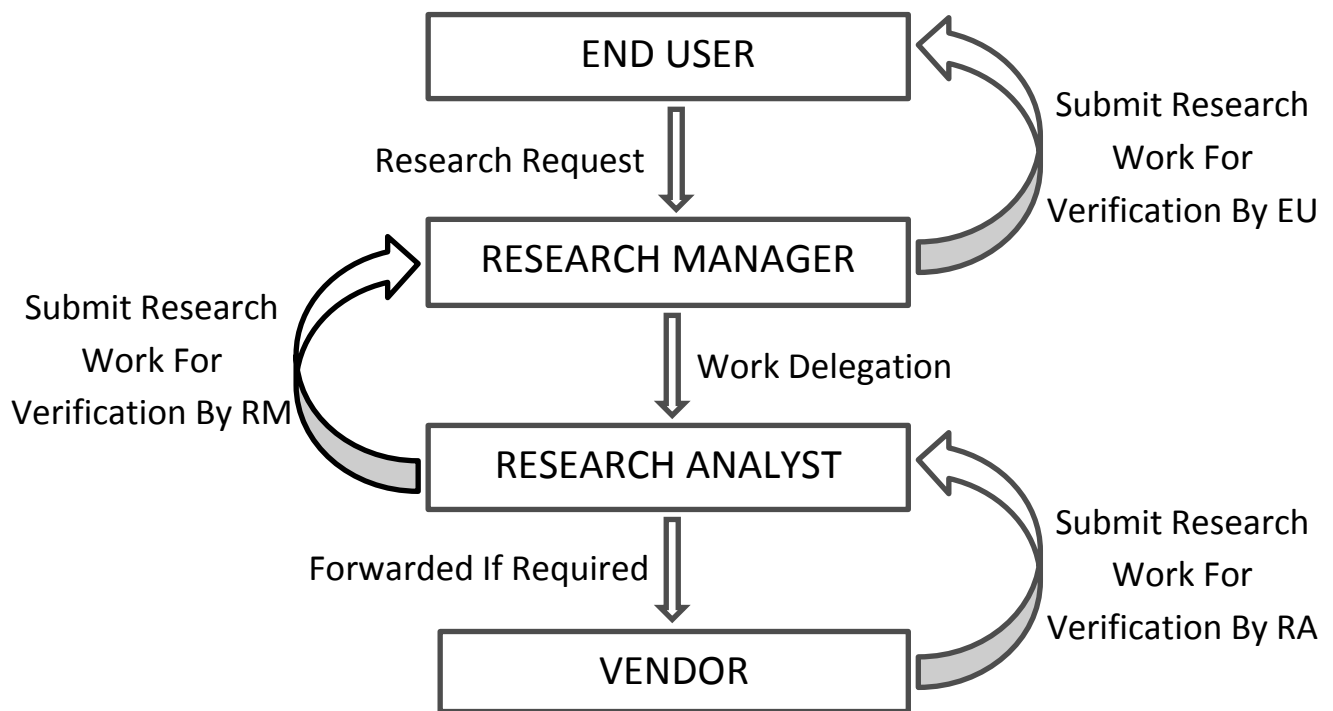


Fig.

## Work Flow:



Intended Client: Tata Consultancy Services(Internal)

Technology Used: TCS MasterCraft InstantApps + JavaScript (UI)  
J2EE (BL)

# MY PARTICIPATION

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My role in the development of the tool was as a Technical Support during the Security Testing of the Tool. During the 1<sup>st</sup> week of my Internship I was made familiar with the InstantApps tool which was used to make the Workflow Tool. I was taught the usage of the MasterCraft tool and studied the documentation. For the next 5 weeks I was in-charge of any technical support that was needed or to report any bugs that I might find and if possible also report a solution.

According to the work assigned to me, I did try to fulfil my duties. I did report certain bugs in the User Interface which were rectified.

# EXPERIENCE

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My overall experience in my Summer Internship at Tata Consultancy Services has been highly enriching. I have learnt a new corporate tool – TCS MasterCraft and also strengthened my basics in JavaScript and Java. I have also learnt about the modular approach to development and team work and coordination between teams from various places across India.

This experience in the real world, outside the bounds of my books has taught me a lot about what a software development truly is.

# ACKNOWLEDGEMENT

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It adds to my pleasure to acknowledge the members of my team, who have helped me while the project work was in progress.

Firstly, I am thankful to my supervisor and project leader **Mr. Souvik Saha** and **Mr. Aniruddha Mukherjee** who have guided me throughout the project duration to achieve my goals.

I would also like to thank **Mr. Tanmay** and **Mr. Mrinmay Daimari** for an opportunity for an internship in Tata Consultancy Services, Kolkata.



# LEGEND

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- **EU** - End User
- **RM** - Research Manager
- **RA** - Research Analyst
- **UI** - User Interface
- **BL** - Business Logic
- **J2EE** - Java 2 Enterprise Edition