**Form I – 3**

**INTERN’S DAILY DIARY**

*(To be filled by the Intern- Please ensure to email duly filled form after the completion of the internship to saman.g@sliit;lk)*

**Intern’s Information**

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| Intern’s Name | K.M.U.K.Senavirathna | Student ID | **IT15002884** |

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| Intern’s Private Address | No 283/2, Bandarawela Road, Badulla |
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| Contact Number | 0777615403 |
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| E-mail Addresses | udithakasun311@gmail.com |

**\*Use comma (,) to separate multiple e-mail addresses providing both company e-mail and personal e-mail**

**Internship Information**

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| Internship Title | Automate Associate-Specialist | Specialisation | **Automation** |
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| Overall Internship Period From | **11/1/2016** | Period To: | **Present** |

*(To be filled by the Intern)*

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| **Internal Training Information** | | | |
| **Training Party** | **Training Description** | **Period** | |
| **From** | **To** |
| Virtusa | Training-Accello | 1st Nov | 25th Nov |
| Virtusa | Requirement Gathering & Analyzing (NTB)-Sprint 1 | 6th Dec | 31st Dec |
| Virtusa | Design and Documentation (DSRS) -Sprint 1 | 3rd Jan | 6th Jan |
| Virtusa | Implementation- Sprint 1 | 9th Jan | 27th Jan |
| Virtusa | Testing /Release Note/Deployment Guide/User Manual-(UAT)Sprint 1 | 30th Jan | 3rd Feb |
| Virtusa | Deployment -Sprint1 | 3rd Feb | 9th Feb |
| Virtusa | Sanity Testing-Sprint 1 | 13th Feb | 15th Feb |
| Virtusa | Requirement Gathering & Analyzing (NTB)-Sprint 2 | 20th Feb | 23rd Feb |
| Virtusa | Design and Documentation (DSRS) -Sprint 2 | 27th Feb | 02nd Mar |
| Virtusa | Implementation- Sprint 2 | 06th mar | 23rd Mar |
| Virtusa | Testing /Release Note/Deployment Guide/User Manual-(UAT)Sprint 2 | 27th Mar | 31st Mar |
| Virtusa | Change Request Implementation- Sprint 2 | 3rd Apr | 06th Apr |
| Virtusa | CR-Testing /Release Note/Deployment Guide/User Manual-(UAT)Sprint 2 | 11th Apr | 12th Apr |
| Virtusa | Deployment –Sprint2 | 18th Apr | 20th Apr |
| Virtusa | Sanity Testing-Sprint 2 | 24thApr | 28th Apr |
| Virtusa | Requirement Gathering & Analyzing (NTB)-Sprint 3 | 2nd May | 5th May |
| Virtusa | Design and Documentation (DSRS) -Sprint 3 | 8th May | 12th May |
| Virtusa | Implementation- Sprint 3 | 15th May | 7th Jun |
| Virtusa | Testing /Release Note/Deployment Guide/User Manual-(UAT)Sprint 3 | 12th Jun | 16th Jun |
| Virtusa | Deployment –Sprint3 | 19th Jun | 21st Jun |
| Virtusa | Sanity Testing-Sprint 3 | 27th Jun | 30th Jun |
| Virtusa | Requirement Gathering & Analyzing (NTB)-Sprint 4 | 3rd July | 6th July |
| Virtusa | Design and Documentation (DSRS) -Sprint 4 | 7th July | 12th July |
| Virtusa | Implementation-Sprint 4 | 17th July | 11th Aug |
| Virtusa | Testing /Release Note/Deployment Guide/User Manual-(UAT)Sprint 4 | 14th Aug | 18th Aug |
| Virtusa | Change Request Implementation- Sprint 4 | 21st Aug | -Present- |

***Comments:***

1. ***The Sprint 4 continued as the previous cycle as mentioned in sprint 1,2 and 3 and is currently occupied in sprint 5.***

*(To be attested by the external supervisor)*

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| External Supervisor’s Name | **Koshila Basnagala** | Date | Click here to enter a date. |

*(To be filled by the Intern)*

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| SUMMARY OF THE KEY TASKS COMPLETED FOR THE MONTH OF <NOVEMBER/2016> | |
| *(Interns should maintain weekly entries at minimum in this area, providing the summary of the task and the task duration. Interns are also advised to maintain a blog where the intern can mention blog URL here.)*   * In the first three weeks a specialized team from Virtusa trained us on how to use their in house Robotic Process Automation tool “Accello” to perform several automation exercises. * Then I was assigned to the NTB RPA Team to automate their repetitive tasks using Accello. | |
| DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERED AND HOW SOLVED ETC., SKETCHES AND DIMENSIONS TO BE GIVEN WHEREVER POSSIBLE. | |
| *(Interns are advised enter information to justify and support the tasks being carried out, so that the external supervisor has a clear visibility of the work being carried out. If a blog is maintained intern can provide the blog URL here)*  At the start of the internship program a specialized team from Virtusa trained us on how to perform Robotic Process Automation using their inhouse developed tool “Accello”. Accello is a comprehensive RPA tool with set of features that makes it easy to use, cost effective, scalable and more reliable as compared to traditional IT solutions. Accello supports automating a wide spectrum of processes: IT Automation, Business Process Automation, Web/Data Extraction, Data integration / Data automation, Utility Automation.  **For more details :**   * <http://www.virtusa.com/services/infrastructure-management/transformation-services/robotic-process-automation/> * <http://www.virtusa.com/eraplatform/tools/accello/>   The team from Virtusa trained us on how perform tasks like Reading an excel file, Writing to an excel file , Performing desktop automation, Performing web automation , Calling an Web Service End Point using the tool. Some exercises were given to further clarify these things.  In our assignments, We were asked to search types of computers in Alibaba.lk get their details and write it in to the new excel sheet. I had to write XPaths and CSS paths to capture web UI objects such as buttons, text areas and search bars etc.  They gave sample task for desktop automation. It was to automate opening of the notepad and to end the task from task manager. There I had capture UI object using a tool called UISpy. Using that tool, we can write Xpaths for desktop UI objects.  In the training period we could get the lot of hands on experience with the RPA tool.  Then I was assigned to NTB RPA project. At the start our team lead and senior members of team gave us KT (Knowledge transfer) to get idea about the project. And scrum meeting venues and times were discussed.  **We were given a document to be signed as a certification that we would not provide any details to any outsiders thus there are no documents, diagrams and screenshots of the applications due to the security policy of Virtusa.** | |
|  | I certify that above information is correct and genuine work of mine  ***Note : The checkbox needs to be ticked by the Intern confirming authenticity of the information provided*** |

*(To be filled by the External Supervisor where supervisors should review the work once a month)*

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| REMARKS AND CERTIFICATION BY THE EXTERNAL SUPERVISOR FOR THE MONTH OF <NOVEMBER/2016> | |
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|  | I certify that I have reviewed and confirmed the work carried out by the Intern is as specified above  ***Note : The checkbox needs to be ticked by the external supervisor*** |

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| External Supervisor’s Name | **Koshila Basnagala** | Date | Click here to enter a date. |

*(To be filled by the Intern)*

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| SUMMARY OF THE KEY TASKS COMPLETED FOR THE MONTH OF <DECEMBER/2016> | |
| *(Interns should maintain weekly entries at minimum in this area, providing the summary of the task and the task duration. Interns are also advised to maintain a blog where the intern can mention blog URL here.)*   * Requirement gathering & analyzing for the Sprint 1 | |
| DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERED AND HOW SOLVED ETC., SKETCHES AND DIMENSIONS TO BE GIVEN WHEREVER POSSIBLE. | |
| *(Interns are advised enter information to justify and support the tasks being carried out, so that the external supervisor has a clear visibility of the work being carried out. If a blog is maintained intern can provide the blog URL here)*  NTB Project was a project with a large scope so the project was initially divided into several sprints and assigned to several teams. First, NTB projects leads and our team lead gave the KT and idea about the sprint 1 processes and how the project is to be completed. I was assigned to External Card Upload Process that contains Web automation. After assigning the processes, I got the SME’s AS-IS document and I had to go through it and had to get an idea about the process. The toughest challenge I faced understanding the process was to understand Banking Domain specific details. Meetings were arranged with the client at the client site in order to further clarify business requirements with my lead and senior member from the team. After gathering the full requirement with SME then we had some meetings with NTB-IT to identify what kind of queries and API’s that they can give us for this process. Somehow we were able to handle the client well disregard of the miscommunications and contradictions.  After gathering the requirement, we analyzed requirement by using SME’s AS-IS Document and our requirement document then create the TO-BE. Then sent it to the client and got the confirmation. Then we made a list of APIs and queries that want in this process apart from what we discussed with the NTB-It team.  After the requirement gathering and designing phase we moved into the implementation phase. | |
|  | I certify that above information is correct and genuine work of mine  ***Note : The checkbox needs to be ticked by the Intern confirming authenticity of the information provided*** |

*(To be filled by the External Supervisor)*

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| REMARKS AND CERTIFICATION BY THE EXTERNAL SUPERVISOR FOR THE MONTH OF <DECEMBER/2016> | |
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|  | I certify that I have reviewed and confirmed the work carried out by the Intern is as specified above  ***Note : The checkbox needs to be ticked by the external supervisor*** |

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| External Supervisor’s Name | **Koshila Basnagala** | Date | Click here to enter a date. |

*(To be filled by the Intern)*

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| SUMMARY OF THE KEY TASKS COMPLETED FOR THE MONTH OF <JANUARY/2017> | |
| *(Interns should maintain weekly entries at minimum in this area, providing the summary of the task and the task duration. Interns are also advised to maintain a blog where the intern can mention blog URL here.)*   * Design and Documentation (DSRS) – Sprint 1 * Implementation – Sprint 1 | |
| DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERED AND HOW SOLVED ETC., SKETCHES AND DIMENSIONS TO BE GIVEN WHEREVER POSSIBLE. | |
| *(Interns are advised enter information to justify and support the tasks being carried out, so that the external supervisor has a clear visibility of the work being carried out. If a blog is maintained intern can provide the blog URL here)*  By using gathered requirement, we created the design and documents with our lead and got the approval from the client and then started the implementation of the process. Due to the nature of web automation at first many challenges were faced by the team in the implementation process. Such as handling unexpected popups and error messages which can terminated the automation process without completing the business process. Some client specific use scenarios were found which are implemented using Java and JavaScript in order to extend functionality of the automation tool.  Ex:   * Obtaining the current date. (JavaScript file) * Validate dates in a Text File using Java * Generating a unique hash key for file content using Java   We finished the development successfully in the given time period and moved to the UAT (User Acceptance Testing) of the process. | |
|  | I certify that above information is correct and genuine work of mine  ***Note : The checkbox needs to be ticked by the Intern confirming authenticity of the information provided*** |

*(To be filled by the External Supervisor)*

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| REMARKS AND CERTIFICATION BY THE EXTERNAL SUPERVISOR FOR THE MONTH OF < JANUARY/2017> | |
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|  | I certify that I have reviewed and confirmed the work carried out by the Intern is as specified above  ***Note : The checkbox needs to be ticked by the external supervisor*** |

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| External Supervisor’s Name | **Koshila Basnagala** | Date | Click here to enter a date. |

*(To be filled by the Intern)*

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| SUMMARY OF THE KEY TASKS COMPLETED FOR THE MONTH OF <FEBRUARY/2017> | |
| *(Interns should maintain weekly entries at minimum in this area, providing the summary of the task and the task duration. Interns are also advised to maintain a blog where the intern can mention blog URL here.)*   * Testing /Release Note/Deployment Guide/User Manual-(UAT) -Sprint 1 * Deployment –Sprint 1 * Sanity Testing-Sprint 1 * Requirement gathering and analyzing-Sprint 2 * Design and documentation-Sprint 2 | |
| DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERED AND HOW SOLVED ETC., SKETCHES AND DIMENSIONS TO BE GIVEN WHEREVER POSSIBLE. | |
| *(Interns are advised enter information to justify and support the tasks being carried out, so that the external supervisor has a clear visibility of the work being carried out. If a blog is maintained intern can provide the blog URL here)*  After the completing the implementation we held the UAT session with the client. While the UAT we had to test the implemented process by using the client’s test cases and new test data that client had.  Release notes, deployments guide and user manual were also created after the UAT.    UAT was successfully completed and deployment was done at the NTB live environment. After deployment we had some sanity testing and now the automation process is running successfully at the client environment.  After the end of sprint 1 we started the gather the requirements for a sprint 2. In the sprint 2 I was assigned to the process Card B&D Reporting. It’s based on default automation. After gathering requirement we prepared the design and documents accordingly. After the confirmation I started the implementation part in Sprint 2.This task was given to me to do individually. | |
|  | I certify that above information is correct and genuine work of mine  ***Note : The checkbox needs to be ticked by the Intern confirming authenticity of the information provided*** |

*(To be filled by the External Supervisor)*

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| REMARKS AND CERTIFICATION BY THE EXTERNAL SUPERVISOR FOR THE MONTH OF < FEBRUARY/2017> | |
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|  | I certify that I have reviewed and confirmed the work carried out by the Intern is as specified above  ***Note : The checkbox needs to be ticked by the external supervisor*** |

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| External Supervisor’s Name | **Koshila Basnagala** | Date | Click here to enter a date. |

*(To be filled by the Intern)*

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| SUMMARY OF THE KEY TASKS COMPLETED FOR THE MONTH OF <MARCH/2017> | |
| *(Interns should maintain weekly entries at minimum in this area, providing the summary of the task and the task duration. Interns are also advised to maintain a blog where the intern can mention blog URL here.)*   * Implementation- Sprint 2 * Testing /Release Note/Deployment Guide/User Manual-(UAT)Sprint 2 | |
| DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERED AND HOW SOLVED ETC., SKETCHES AND DIMENSIONS TO BE GIVEN WHEREVER POSSIBLE. | |
| *(Interns are advised enter information to justify and support the tasks being carried out, so that the external supervisor has a clear visibility of the work being carried out. If a blog is maintained intern can provide the blog URL here)*  According to the requirements gathered and proposed solution I faced several challenges to overcome to fully implement the solution using the RPA tool. The requirements of the process had some requirements which are not available to implement by the RPA too. So I had to write custom Java libraries in order to extend the functionality of the system. Following custom functionality was added to the tool by using Java.   * Reading an excel file column and row based. * Duplicating columns in an excel file. * Generating excel charts using custom data. * Refreshing excel charts on change of data. * Convert excel charts into a PDF Document. * Copy and Pasting values from one sheet to another sheet in an excel file. | |
|  | I certify that above information is correct and genuine work of mine  ***Note : The checkbox needs to be ticked by the Intern confirming authenticity of the information provided*** |

*(To be filled by the External Supervisor)*

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| REMARKS AND CERTIFICATION BY THE EXTERNAL SUPERVISOR FOR THE MONTH OF < MARCH/2017> | |
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|  | I certify that I have reviewed and confirmed the work carried out by the Intern is as specified above  ***Note : The checkbox needs to be ticked by the external supervisor*** |

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| External Supervisor’s Name | **Koshila Basnagala** | Date | Click here to enter a date. |

*(To be filled by the Intern)*

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| SUMMARY OF THE KEY TASKS COMPLETED FOR THE MONTH OF <APRIL/2017> | |
| *(Interns should maintain weekly entries at minimum in this area, providing the summary of the task and the task duration. Interns are also advised to maintain a blog where the intern can mention blog URL here.)*   * Change request Implementation -Sprint2 * CR-Testing /Release Note/Deployment Guide/User Manual-(UAT)Sprint 2 * Deployment –Sprint2 * Sanity Testing-Sprint 2 | |
| DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERED AND HOW SOLVED ETC., SKETCHES AND DIMENSIONS TO BE GIVEN WHEREVER POSSIBLE. | |
| *(Interns are advised enter information to justify and support the tasks being carried out, so that the external supervisor has a clear visibility of the work being carried out. If a blog is maintained intern can provide the blog URL here)*  After the implementations of CRs the Testing was done. And after the testing phase was completed successfully the deployment guides, the User manuals and other documents were created. Then the process was sent to the deployment. And the process was monitored whether it’s executed accurately. | |
|  | I certify that above information is correct and genuine work of mine  ***Note : The checkbox needs to be ticked by the Intern confirming authenticity of the information provided*** |

*(To be filled by the External Supervisor)*

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| REMARKS AND CERTIFICATION BY THE EXTERNAL SUPERVISOR FOR THE MONTH OF < APRIL/2017> | |
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|  | I certify that I have reviewed and confirmed the work carried out by the Intern is as specified above  ***Note : The checkbox needs to be ticked by the external supervisor*** |

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| External Supervisor’s Name | **Koshila Basnagala** | Date | Click here to enter a date. |