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| Diploma in Computer Engineering  Intelligent Automation (INAUTO) |  |

**INAuto Project Proposal Form**

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| Team Name: | J&J | Class: PE03 |
| Team Members: | Jason Phua Kai Xiang | |
| Johnson Ng Chong Sheng | |
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Pls tick on the boxes:

RPA Focus Area

Utilities  Facilities  Education  Health Care  Web Application 



Finance  Others, please indicate  \_\_\_\_\_\_\_\_\_\_\_\_

**Brief description of your RPA App:**

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| This project aims to build an RPA app that automatically downloads data as xlsx file from google attendance forms for multiple weeks for 1 class that is filled up by the students across the weeks  The RPA app compares the xlsx file data with the system datatable of classlist, to see which students did not submit the attendance form.  The app would also calculate the attendance rates of the weeks, as well as the average attendance rate across the weeks.  The names of the students across multiple weeks who didn’t submit the google attendance form, attendance rate for each week and average attendance rate of the weeks, will be updated and written to a xlsx file, which will be emailed automatically to the teacher of the class.  \*data scraping of classlist from brightspace, obtaining department info and name of students, teachers, etc |
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| The applications used in this project are:  upload.wikimedia.org/wikipedia/commons/thumb/c/...  Google Forms |

**Workflow Design, Flowchart Design & Datatable Structure**

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| **Classlist data**    **Week 1 Attendance Form data** (16 responses)    **Week 2 Attendance Form** (18 responses)    **Week 3 Attendance Form** (19 responses)    **Appended Attendance Forms with Weekly and Overall Attendances Rates**    **Week 1, 2 and 3 Absentees**    **Limitations:**   * very limited to the data provided, will need revisions if provided with different data * unable to email to absent students * workflow could be more efficient * path for attachment of excel file to email requires manual input * data input for google form responses was manually inserted   Steps/File path changes required for project to work:  For each of the google forms auto-download, the unzip file path has to be changed  Google download settings change to project file path,  In the email workflow, email should be changed to own email, attachment file path should be changed to Attendance.xlsx in project file path (varies on computer).  **Extra Packages used:**  UiPathTeam.DatatablesComparison.Activities v2.0.0  BalaReva.ZipUnzip.Activities v2020.4.3 |
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**Development Works:**

* Students are to work in pairs. Your tutor may allocate the grouping or students may be allowed to form their own group. Each student in the group must contribute 50% towards the project implementation. Interviews will be conducted to find out how much each student has contributed. If any student does not contribute enough, he/she will fail the project.
* A workshare table must be submitted to show distribution of effort.

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| **Work done** | **Action by** |
| Google Form creation & auto-downloading data | Johnson |
| Comparison of google form data and student database, export and update the data xlsx file | Jason |
| Emailing updated csv file to teacher | Jason |
| Emailing to students who did not submit | Johnson |
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**Project Planned Schedule**

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| **Week** | Planned Tasks | Action By |
| **e.g. week 10** | Layout Design | Team member: by Alex |
| 7 | Planning of Proposal | Johnson |
| 8 | Writing out the proposal | Johnson |
| 9 | Term Test Week (Layout design) | Johnson |
| 10 | Term Break (Creating of Google Form) | Jason |
| 11 | Term Break (Creating app to automatically download google form) | Johnson |
| 12 | Obtaining class data from Brightspace into UiPath database | Johnson |
| 13 | Comparing Google Form data with Classes Database to find absentees | Jason |
| 14 | Calculating Average Attendance across 3 weeks | Jason |
| 15 | Combine data into one csv file and email it to teacher-in-charge | Jason |
| 16 | Email to students who did not submit | Johnson |
| 17 | Final Project Submission & Interview | Jason& Johnson |

**Approved** **/ Rejected**  **/Re-Submit** 