## Mini Project Problem Statement

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| Application under Test | OrangeHRM (Open source Employee Management application) (locally hosted).. |
| Start Date | 26th November 2021 |
| End Date | 17th December 2021 |
| Final Expected Outcome | * Selenium scripts * Reports generated * Logs, appropriate screenshots as applicable * Follow scrum methodology. * Use appropriate templates for Test Case writing, presentation, etc. * Modularization/ framework * Proper naming convention and all best Practices followed. * Present the learnings, challenges faced, process followed, demo of script execution along with report generation. * Record a Demo in screenshot format along with the explanation. |
| Deliverables location | * GitHub/GitLab (These details will be shared soon) |
| POC | Mentors:  Group5– Sunil Bansal or Varsha Bakshi  Technical help: Sunil Bansal,Varsha Bakshi, Anuprita Nagpure, Renuka Kulkarni. |

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| Group | **Problem Statement:**  **Requirements:**   * **GUI Automation** (using TestNG) –   Identify 20-30 Test Cases from different modules. (At max 10 test cases each module).  Do a feasibility study, to find out which tests are automatable/ not automatable along with the reason.  Pick most suitable 20-30 Test cases and automate using POM + DDT (using Excel) approach.Page Factory model, Apache POI. Deliberately fail a couple of test cases, so that report shows combination of Pass and Failed Test cases. Generate appropriate reports, Extent Reports, Customizable Emailable Report. Logging reports using log4j2.properties and log4j2.xml.  Read all possible configurations from a .csv,xls,xlsx file.  Read the input data required in your scripts from an **excel** file.  Your automation should have an in-build mechanism to execute the scripts across different Browsers.  **Tools to be used:**   * **Maven (and its dependencies)** * **Selenium with Java for GUI Automation.** * **For Rest API Testing** (using Postman) * **Specific Challenges: (Api testing automation using Rest Assured)** |

**Some more insights about the application chosen:**

OrangeHRM includes a full suite of applications for **comprehensive human capital management**: core HR, time and attendance, candidate recruiting, performance reviews, absence management, benefits administration and more.

OrangeHRM provides **useful modules for recruitment, benefits, time and attendance, leave management, employee self service, personnel information management, and more**. All these modules are combined in single platform allowing you to re-engineer and align your HR processes in line with your company goals. OrangeHRM is an expansive open-source HR software provider, meaning its **most basic services are free and web-based**.





