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| Group number | 4 | Date: 01/06/21 |  |
| Project manager | John Anwana | Sponsor: Dr Emmanuel Ogunshile | *24 Hour Solar Power Generating System* |
| Purpose of the group |  | | |
| Mission | Design and implement an application for modelling, monitoring and controlling a 24-hour solar power generation and  distribution system that will help a homeowner to reduce their TCO. | *Mission 2* | *Mission 3* |
|  | *Mission 4* | *Mission 5* | *Mission 6*  *Use the number of boxes as appropriate.* |
| Objective | Generation of a requirements / specifications tree. | Demonstration of how calculations are performed and can be reviewed | Develop a Web application to monitor and control solar panel system |
|  | *Objective 4* | *Objective 5* | *Objective 6*  *Use the number of boxes as appropriate.* |
| Scope of the project |  | | |
| Name and UWE e-mail of the team members: | John Anwana- [John2.Anwana@live.uwe.ac.uk](mailto:John2.Anwana@live.uwe.ac.uk)  Dilshani Herath Mudiyanselage- [dilshani2.Herathmudiyanselage@live.uwe.ac.uk](mailto:dilshani2.Herathmudiyanselage@live.uwe.ac.uk)  Irene Ofori Asare- [Irene2.Oforiasare@live.uwe.ac.uk](mailto:Irene2.Oforiasare@live.uwe.ac.uk)  Pratiksha Patel- [Pratiksha2.Patel@live.uwe.ac.uk](mailto:Pratiksha2.Patel@live.uwe.ac.uk)  Janith Sooriyathilaka- [Janith2.Sooriyathilaka@live.uwe.ac.uk](mailto:Janith2.Sooriyathilaka@live.uwe.ac.uk) | | |
| Roles and responsibilities | John Anwana, Project Manager.  Irene Ofori Asare, Secretary/Communication Officer.  Janith Sooriyathilaka, Presentation Lead. | | |
| Expectations | 1. All team members must attend the lectures, tutorial and team meetings. 2. All e-mails must be responded to within 3 working days. 3. Members must ensure any submitted work is plagiarism free. 4. Every member must contribute ideas to the process. 5. All tasks must be completed within the time schedule. 6. All submissions must be relevant to the task and useful otherwise they do not count as contributions. | | |
| Initial plan (**This will evolve over a period of time**) | Develop Software Specification   1. Feasibility Study 2. Business Proposal 3. Risk Analysis 4. Requirements documentation 5. Mathematical modeling/Simulation of Solar panel generator   Software Design and Development   1. Architectural Design 2. Database Design 3. UI/UX Design 4. Components Design and Development   Software Validation   1. Development of test cases 2. Unit and component testing 3. System testing | | |
| Strengths of the group | Programming experience  Research capabilities  Designing UI/UX  Web technologies.  Systems and Database development  Simulation experience. | | |
| Weaknesses of the group | Communication and meeting Scheduling | | |
| Mitigation strategy | Create proper communication channels – appoint communication officer.  Select most convenient time for group meetings | | |
| e-Signed |  | | |