**Metrorail Ticket Booking System**

**Software Process Model**

**Objective:** Selection of appropriate process model for the software development

After studying the software process model we came to conclusion that the most appropriate model to develop our proposed system solution will be Waterfall Model or Linear sequential model. Arguments of why we selected the following method and why this will the best method to develop our proposed software is given bellow,

1. The Waterfall model is a linear process model, in which each phase produces an approved work product that is then used by the next phase. The work product flows into the next phase, and this continues until the end of the process. As our project is pre requirement-based project so the specific requirements will be pre-determined and the work product will be ready in each phase and will be workable for the next phase.
2. The Waterfall model is only appropriate when the requirements the fully understood as our project is made for the mass use, the requirements will be straight forward for the mass generation to fully understood all the functionality.
3. As studying all the rest software development methods like Agile, Scrum these models are more based on user interference and interactions but for our project there will be less user interactions as the specifications will be pre-determined and there will less changes from user interactions.
4. As this process is easy to understand; It clearly defines deliverables and milestones; It emphasizes the importance of analysis before design, and design before implementation, so this is well fit for our project
5. As in this model environment is stable which means there is no frequent changes and after the whole project ends and tested by the users more changes and updates are applied on the experience of the users
6. Technology and tools used are not dynamic and is stable