Design and Methodology

This project entitled "Enhanced APC Faculty Loading System" is a research and development system that attempts to gather the existing information and data from the APC's Information System - Flavio. This project is being designed to generate a proposed faculty loading schedule based on the matching algorithms and a statistical report of each faculty member schedule. The project team uses the Agile Development Methodology to assess the direction of a project throughout the development lifecycle. According to research, the use of Agile Methodology will guarantee the quality of the system throughout the development lifecycle. The project team could achieve this through regular cadences of work, known as sprints or iterations, at the end of which the project team will be able to present a potentially working system. Small incremental releases will be visible to the project team to identify any issues early and make it easier to respond to change. The clear visibility in agile development helps both client and project team to ensure that any necessary decisions can be taken at the earliest possible opportunity. The team goes through a series of iterations, analyzing, designing, developing and testing each feature in turn within the iterations. Each feature is taken from start to finish within an iteration, with the software being tested at the end of each iteration. Based on the Project Based Learning Track of the project members, there will at least 3 iterations before the proposed system will be deployed and integrate in APC's Information System. Each iteration covers 3 and a half months including the Alpha and Beta Testing of the system.