Project Abstract

Group Number : 11
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Project Title: Career Guidance: ForwardFocus

Project Description:

ForwardFocus is a software which will target underGraduate Students. Career Guidance is a tool which effectively allows Undergraduate/Graduate students from various streams to realize their true potential and suggests options for their future studies that aligns with their natural inclinations. Based on the interests of a student, he/she is enrolled for a particular category of training and scheduled to give tests. Our software aims at providing outstanding support, audio-visual training and feedback oriented evaluation system to the users. Based on the evaluation and performance(GPA,Test score) the system opts to find the best career road map along with providing comprehensive information about admission requirements, for building a good profile and list of universities to that student.

Proposed System Features:

- User signup and login facility.
- Enrollment of students for a particular training.
- Platform that keeps track of schedules and regular examinations.
- Evaluation system based on performance in examination with feedback to users.
- Predicting universities based on academic performance and test scores.

Our Selected Process Model:

- **Scrum**
  - User Satisfaction is important which leads to success.
  - High transparency and visibility of the project.
  - Adopt changes based on constant feedback ensuring optimization of the product in less time- requests based on changes are re-prioritized at Sprint boundaries
  - Works on a self-organizing, cross-functional team principles.
  - Framework requires constant invention, so all steps are unknown in advance, and estimates are not expected to be reliable
  - No steps involve long lead times or lots of specialized resources

Why we did not select other Process Model:

- **Waterfall Model**
  - Due to frequent changes of the variation of ranking of the universities(field wise) and evolving universities, the eligibility criteria as well as the type of questions differ.
  - Major blunder, if detected until the working software is reviewed, can be disastrous.

- **V-Model**
    - Similar to the Waterfall model, V-Model is inflexible as well.
    - Main drawback is the constant change in the requirements that our model holds. (Which does not hold true with V-Model)
- **Incremental Model**
    - Accounts to the expanding of the financial costing of the entire project, with the repeated verification of progresses at every stage with the customer.
    - Additionally, it needs precise and detailed planning of all the stages in advance. (Which does not work well with our model, as it contains variations that cannot be addressed well in advance)
- **Spiral Model**
    - Combination of iterative, waterfall and is a risk driven model.
    - The major disadvantage of this model is that it is very time consuming because as the requirements change, the cost factor increases every iteration.
    - To use this model it also requires risk management expertise. Hence due to time and cost factor, this model cannot be as efficient as other models.
- **Extreme Programming(XP)**
    - Focuses more on code rather than on design, whereas system design is more important to attract customers.
    - With constant changes documentation cannot be done properly, thus in case of unexpected failure it becomes difficult to track where it went wrong.
- **Kanban**
    - Imposes limits on the number of items that can live in any workflow step at any given time called WIP limits
    - Prioritization and commitment is optional
    - No particular item size is prescribed