

Process Model Report

Due Date: February 10, 2020

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Introduction:

This report describes Team 3's selection of a software process model for its project to develop a mastery gradebook dashboard for Davidson College.

Questions and Answers:

1. What primary process model does the team plan to use?

We plan to primarily use the Agile process model.

2. What secondary process model(s) does the team plan to use?

To supplement our Agile process model, we plan to use extreme programming.

3. What project or team characteristics led to this decision?

We decided to use the Agile process model for many reasons. First, our goal for this project is to have working software that can actually be used by professors and students. Therefore, the Agile principle that measures progress through working software aligns with our project goals. Additionally, we want to tailor our software to the intended users (professors and students). That being said, we predict that requirements will change and new requirements will be added as we develop our application. The Agile process model allows us to add requirements later into development rather than gathering all requirements at the beginning. Agile also allows for continuous customer feedback, which we hope to receive from our users throughout the life cycle of this project. We want to supplement our Agile process with extreme programming because we think user stories will be a good way for us to model and document our requirements. We will work as a team to turn our preferences from users into user-stories that we can then use to develop features. However, we will only release our application once (at the end of the semester) and will not continually release our application like in many extreme programming instances. Finally, we want to use this combination of Agile and extreme programming because we all think that it is beneficial to have experience working in these frameworks for future internships and jobs in software. We know that Agile is widely used at many companies and we think it is relevant to our education.

4. Were any other alternatives considered and rejected? If so, why?

We rejected the waterfall model because we know our requirements will be constantly changing throughout development. We wanted a process model that handles changing requirements well. We also value a working product as a measure of progress over documentation, like in the waterfall model.

5. State the actual sequence of activities to be performed

1. Initial requirements
2. Design & Architecture
3. Code
4. Test
5. Iterate activities 1-5 about 4 or 5 times
6. Release

