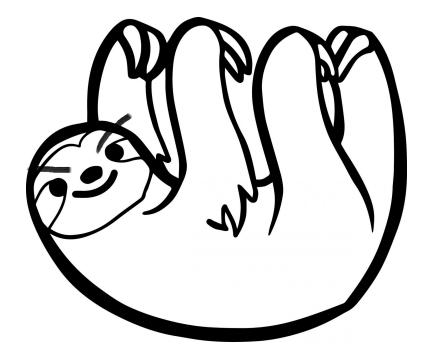
Not Fast, Just Furious



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Product Backlog v3

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Changelog

Version 0 (Oct 15) - deliverable 2

- Initial release, contains personas, user stories, sorted user stories (by category)
- Has 4 personas: Elitist, Diligent, Average, Inattentive students

Version 0.1 (Oct 19) - deliverable 2

- Added back missing persona for Professor

Version 1 (Oct 20) - deliverable 3

- Merged the 4 student personas into 1 student
- Added a page of user stories sorted by order of development
- Removed unneeded persona points
- Removed unneeded user stories

Version 1.1 (Oct 23) - deliverable 3

- Added the changelog
- Broke down upcoming user stories down into tasks, along with story points

Version 2 (Oct 30)

No changes

Version 3 (Nov 7)

- Added non-user story tasks (NST)
- Added U8

Personas

Sohee Kang - Professor (The Client)

- Female, middle age
- Cares deeply about her students, dedicated to her work and maintains a professional attitude whenever required
- Strong willed but can be convinced to compromise
- While she is dependant on technology she has limited experience with more advanced things and does not have the time to learn
- Has high expectations of technology's ability to solve her problems and sees technology as a potential solution to her problems rather than a problem in itself
- Prefers simple, fast interfaces but would also like to have options that provide more control over the program
- Willing to compromise on non-essential features, in order to get a working product on time.
- Will not be disappointed by a less than ideal program on the condition that it does work to an acceptable level of quality
- Understands the benefits of technology but prefers for it to be as simple as possible to the user

Summary: Stubborn at times but is willing to compromise on some things. Willing to have someone uses new technologies if she sees a significant benefit in it.

Diligent Student : Elizabeth

- Redoes assignments/finds outside questions in order to improve herself
- Wants solutions to be posted/viewable after deadline to compare
- Willing to help others should they come to her for help
- Willing to try new study methods to improve learning but prefers pen and paper over technology
- Prefers to work on paper, old fashioned
- Always on top of their studies
- Minor in statistics

User Stories

- P: I want to be able to create problems without LaTEX or PERL
- P: I want to be able to create sets of problems and upload them
- P: I want to be able to edit an assignment
- P: I want to be able to set a deadline for assignments
- P: I want to make assignments visible to students
- P: I want the assignment to be individualized
- P: I want students to be able to receive the assignments
- P: I want students to be able to submit their completed assignments
- P: I want grades to be computed and uploaded automatically
- P: I want to be able to add/remove students from the class
- P: I want only students who are in the class to be able to access the system
- S: I want to be able to view the class average, to compare my own grades to the class
- S: I want to receive bonus marks for finishing an assignment early
- S: I want to see the correct answers after the deadline has passed so I can compare them and see what I did wrong so that I can improve for next time
- S: I want to be able to retry my assignments to get higher grades
- S: I want to be able to see my mark as soon as possible so I don't need to go check it later
- S: I want the assignment to be as easy to access as possible

Sorted User Stories by category

Assignment Setup

- P: I want to be able to create simple problems that use addition/subtraction without LaTEX or PERI
- P: I want to be able to create sets of problems and upload them
- P: I want to be able to (delete/edit) an assignment
- P: I want to make assignments visible to students
- P: I want to be able to set a deadline for assignments

Accessing Assignments

- P: I want students to be able to receive the assignments
- P: I want students to be able to submit their assignments

Grades

- P: I want grades to be computed and uploaded automatically
- S: I want to be able to see my mark as soon as possible so I don't need to go check it later
- S: I want to be able to view the class average, to compare my own grades to the class

Retrying Assignment

- P: I want students to be able to retry assignments
- S: I want to be able to retry my assignments to get higher grades

Extras

- P: I want the assignment to be individualized
- P: I want to be able to create complex problems without LaTEX or PERL where I can use mathematical symbols such as summation.

Class Management

P: I want to be able to add/remove students from the class

Sorted User Stories by order of development

These user stories will be split into sprints on next page

- P indicates professor
- S indicates student

Initial setup (what needs to get done first)

- P: I want to be able to create simple problems that use addition/subtraction without LaTEX or PERL
- P: I want to be able to create sets of problems and upload them

Next steps

- P: I want to be able to add students to the class
- P: I want students to be able to receive the assignments
- P: I want students to be able to submit their assignments

Future sprints

- P: I want to be able to set a deadline for assignments
- S: I want to be able to see my mark as soon as possible so I don't need to go check it later

Future sprints → "starting to do some extras"

- P: I want the assignment to be individualized
- P: I want grades to be computed and uploaded automatically
- P: I want to be able to maintain (delete/edit) an assignment
- P: I want students to be able to retry assignments
- S: I want to be able to retry my assignments to get higher grades
- P: I want to make assignments visible to specific students
- P: I want to be able to create complex problems without LaTEX or PERL where I can use mathematical symbols such as summation.
- S: I want to be able to view the class average, to compare my own grades to the class complete b or in progress, and should be merged in the next sprint.

User Stories broken into tasks

Format:

(U1) P: (8)

means User Story 1; Professor; 8 story points

T1: (3)

means Task 1; 3 story points

(U1) P: (13) I want to be able to create simple problems that use addition/subtraction without LaTEX or PERL

T1: (1) Create a window where data can be entered

Is a dependency for everything GUI related

Uses JavaFX library

T2: (8) Save data in some format

Design ways to store in database or objects (ex. ER diagram, UML diagram) Will be discuss more in depth when we regroup

T3: (1) Output that data back onto the screen

T4: (1) Be able to give input

T5: (1) Check if it matches with answer

Temporary simple input validation

Will not need to be with simple problems right away.

Just check if given input matches stored input

T6: (1) Output result

(U2) P: (8) I want to be able to create sets of problems and upload them

T1: (2) Be able to upload individual questions through the GUI Question and Answer inputs

T2: (2) Be able to upload ASSIGNMENT files through GUI

T3: (2) Create Object to store Questions

With Question and Answer variables

T4: (2) Parse CSV file and store it

"Question", "Answer"

T5: (2) Store input properly into database

T6: (2) Question id should automatically increment

Low Priority

Dependent on U4 T1

T7: (4) Take a ResultSet (JDBC object) and read its information into a Question object

(U3) P: (8) I want to be able to add students to the class

T1: (2) Be able to upload individual students through GUI StudentNumber, FirstName, and LastName inputs

- T2: (2) Be able to upload STUDENT files through GUI
- T3: (2) Create Object to store Students

With StudentNumber, FirstName, and LastName variables

T4: (2) Parse CSV file and store it StudentNumber, FirstName, LastName

- T5: (2) Store input properly into database
- T6: (4) Take a ResultSet (JDBC object) and read its information into a Student object
- (U4) P: I want to be able to create assignments with a name and deadline
 - T1: (8) Set up Assignment table with all necessary fields including possible future fields
 - T2: (8) Set up Question table that stores all question fields and is connected properly to section and assignment

Question(SEC, AID, QID, question fields...)

T3: (4) Create GUI screen to create assignment

Should connect to main professor page

Should lead to Question page once assignment is created

Should have assignment #, name, deadline, and total question #

T4: (2) Combine elements of front end and back end together

Make it so assignment and student can write to the database

Dependent on U4 T1

(U5) P: (4) I want students to be able to receive the assignments

Dependent on U3

- T1: (8) Set up student tables with all necessary fields
- T2: (4) Create basic assignment page for student

Create new Scene for this

- T3: (1) Create function to randomly choose k of n questions from assignment
- T4: (3) Add n number of questions to the assignment (ResultSet)

n should be set when the assignment is first created by professor

- T5: (2) Display questions added on the GUI
- (U6) P: (3) I want students to be able to submit their assignments

Dependent on U4

- T1: (2) Student can input answers for each question (GUI)
- T2: (1) Students answers can be compared with true answer
- (U7) S: (1) I want to be able to see my mark as soon as possible so I don't need to go check it later
 - T1: (6) Set up Student Assignment table that stores student marks for each individual Assignment
 - T2: (1) Display total result of assignments right away
 - T3: (1) store result of assignment

Store only if the current mark exceeds the current stored value

- (U8) S: (1) I want to be able to view the class average, to compare my own grades to the class
 - T1: (4) Determine class average for assignment using the database
 - T2: (4) Display the class average for an assignment on the GUI

Non-user story tasks (NST):

- T1: (6) Create table for students
- T2: (5) Validators for entering students
- U5 T2: Create basic assignment page for student
- T4: (4) Add Tables to Questions
- T5: (4) Add Tables to Assignments

Not yet assigned User stories

- P: I want the assignment to be individualized
- P: I want grades to be computed and uploaded automatically
- P: I want to be able to maintain (delete/edit) an assignment
- P: I want students to be able to retry assignments
- S: I want to be able to retry my assignments to get higher grades
- P: I want to make assignments visible to specific students
- P: I want to be able to create complex problems without LaTEX or PERL where I can use mathematical symbols such as summation.