

PROJECT DELIVERABLE 2

Team L01_11
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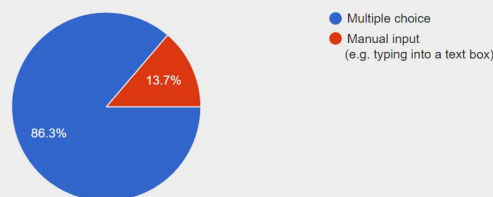
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Research

In order to develop genuine and realistic personas, we decided as a team to enlist the help of the student body to provide us with valuable information. We were adamant on not specifically targetting statistics students or even only UTSC students, because we understand that the application we are developing has a place beyond just statistics courses. We established eight questions we believed would be useful in developing our personas and shared our survey across various social media platforms. In just three days, we received over 120 responses and after a week, we closed our survey at 182 responses. Here are some interesting results:

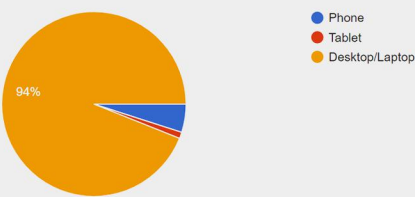
When submitting solutions for assignments, would you rather the questions be multiple choice or you manually input your solutions?

182 responses



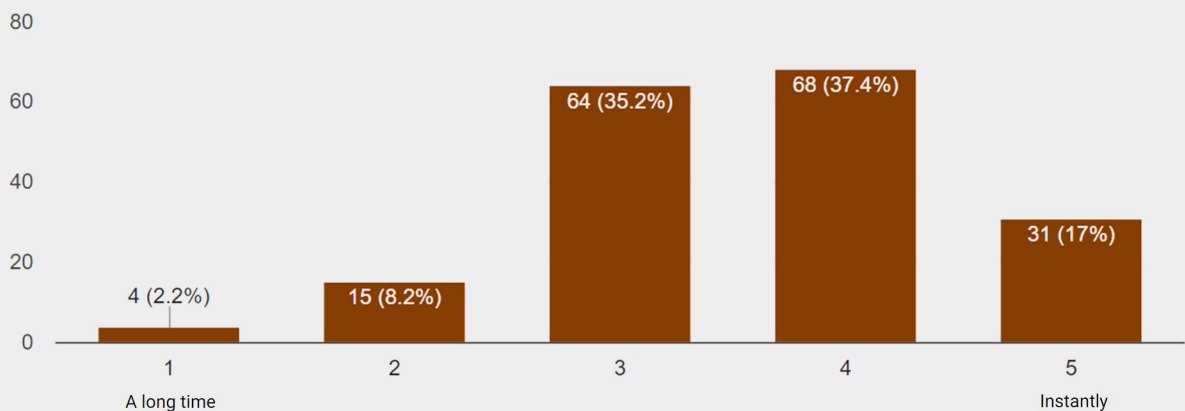
What is your preferred method of submitting course work?

182 responses



Suppose you have been introduced to a new software or website. How long would it take for you to feel comfortable navigating it?

182 responses



Karen Cohen

50-year-old professor at UTSC, Female
Head of Statistics Department

- Stern personality, often cancels office hours.
- Only works on desktops at her home and university office; does not use a smartphone or laptop.
- Lectures STAB22, but her main focus is on her advanced machine learning research.
- Due to her busy schedule, she can only allocate time to teaching the course and nothing more.
- Before submitting final marks to the registrar's office, she often asks her TAs to compile a spreadsheet of students' marks at the end of the semester so she can review them.
- The difficulty of questions that she creates are based on averages of previous assignments.
- Loves the idea of working from home.
- Hobbies include learning new technologies to aid her research.



Ben Provinski

32-year-old lecturer at UTSC, Male
Newly-recruited into Statistics Department
Lectures STAB22H3 & STAB27H3

- Loves to engage with and give feedback to his students.
- Professor Provinski often extends his office hours.
- Active on discussion boards and replies to emails fairly quickly.
- Likes to see statistics about his students, especially about their performance on quizzes and assignments.
- Appreciates feedback from students so he can actively adjust the course work.
- His laptop is his primary working machine and it is almost always on him.
- He is comfortable doing work on his computer, but prefers grading on paper copies of assignments.
- Does remarking for his courses himself.



Jenny Li

20-year-old TA at UTSC, Female
3rd year Statistics Specialist
Teaching assistant for STAB22H3

- Currently taking 6 courses, each with an assignment or quiz every week meaning time is severely constrained.
- Since her bag is always full of school material, she prefers when her students' remark requests can be handled digitally.
- She lives 1.5 hours away from UTSC and because of her long commute, she is always on her Android phone often checking emails.
- Prefers to complete her work on the go using her Windows tablet.
- When she has time, she uses her laptop for light browsing, school work and entering student quiz marks.
- Comfortable with computers; has experience with document typesetting in LaTeX and programming with R.



Dana Fath

19-year-old student at UTSC, Female

2nd-year Life Sciences Specialist

- Uses a computer for social networking, writing lecture notes, and completing assignments.
- Reads lecture notes on her phone while riding the TTC.
- Familiar with most common web applications and software.
- Comfortable being introduced to new software.
- Completes assignments gradually instead of finishing them in one session.
- Prefers assignments with multiple choice questions because there are less grading errors.
- Always requests detailed feedback from professors on grades.
- Often disputes her marks.



User Stories

PRIORITY 1

Creating problem sets with deadlines

As Karen/Ben (a statistics Professor), I would like to generate problem sets differently for every instance of an assignment using the National Problem Library so that I don't have to manually write them.

As Karen/Ben (a statistics professor), I would like my TAs to be able to create and edit problem sets (by replacing existing questions with new ones from the library) and set deadlines so that I don't have to do it myself.

As Karen/Ben (a statistics professor), I would like to release problem sets to my students and set deadlines for these assignments.

PRIORITY 2

Solving problem sets

As Dana (a student), I would like to be able to select an open problem set before its deadline has passed and begin answering questions.

As Dana (a student), I would like save my progress on my current assignment so I can work on it later.

As Dana (a student), I would like to view all my open and in-progress assignments along with their due dates.

As Dana (a student), I would like to be able to submit my completed assignment before the deadline has passed.

User Stories Cont.

PRIORITY 3

Auto-marking & student feedback

As Karen/Ben (a statistics professor), I want every assignment submission to be auto-graded by comparing library solutions to student solutions.

As Dana (a student), I would like to see which questions on an assignment I got right and wrong after a submission so that I can retry the assignment if the deadline has not passed.

As Karen/Ben (a statistics professor), I want to be able to view a student's grades for all closed assignments that they have submitted.

As Dana (a student), I would like to receive detailed feedback about my assignment submission after the deadline has passed regarding how much time I spent on the assignment, how many tries I took, and the average mark of all my completed attempts.

PRIORITY 4

Grade analysis & retrieval

As Ben (a statistics professor), I would like to see the grade distribution of an assignment over the student body, including the averages for each question after the deadline has passed.

As Karen (a statistics professor), I would like the application to generate a spreadsheet that I can download of all student marks for a specific assignment.

User Stories Cont.

PRIORITY 5

Post-auto-mark & remarking

As Dana (a student), I would like to be able to submit a remark request with an explanation after the assignment deadline has passed so that my grade can be reevaluated.

As Jenny (a TA), I would like to be able to print a student's remark request that includes their version of the assignment, their answers, and their justification paragraph so that I can look over the request offline.

As Jenny (a TA), I would like to be able to manually adjust a student's assignment submission mark after they have submitted a remark request.

As Dana (student), I would like to be notified via email when my remark request has been processed with information regarding the instructor's decision.

PRIORITY 6

Assigned TA groups/sections

As Karen (a statistics professor), I would like to assign groups of students to TAs so that every TA is in charge of dealing with remarks for only a section of the student body.

As Jenny (a TA), I would like to be notified via email when a student that is of a section assigned to me submits a remark request so that I can look over their submission.

As Ben (a statistics professor), I would like the option to receive student remark requests directly instead of going through TAs so that I can remark assignments myself.

User Stories Cont.

PRIORITY 7

Assignment and course feedback

As Dana (a student), I would like to be able to write feedback for the professor and TAs about an assignment after the deadline has passed.

As Ben (a statistics professor), I would like to be able to see comments from students about a problem set after the deadline has passed, so I can gauge difficulty and potentially adjust future assignments.

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