Project Requirements

COMS 309 Software Engineering

IDEA TO DONE PROJECT

Best Projects

- At the end of the semester, we will pick **four to eight best projects from all the projects**.

- All teams will need to create short video demos of their projects. The BEST teams will be indicated.

- WHY SHOULD YOU TRY TO BE ONE OF THE BEST TEAMS?
  - Extra credits for best teams.
  - To get the most out of the course.
  - Project documents and demo can be used for job interviews + entries in resume.
  - For job reference.

- BEST CODERS and BEST MANAGERS will also be recognized and rewarded.

Student +ve Comments

- Having a semester long project is a very good learning experience. Also being able to meet with the professor every week to discuss the project is very helpful. The checkpoints are very helpful as well.
- I liked that we got to do a project from start to finish with this project. It gives you a sense of satisfaction!
- The project that we work on for the semester is extremely fun and exciting. I love working on it and this is definitely my most favorite class.
- I love the idea of a class that walks you through the process from start to finish of a software application, and this class does that pretty well.
- I loved being able to work on a project with a team, like most developers do in the real world. We were able to pick our own project, which I liked, and all of us became passionate about it and loved working on it.
- I thought the project itself was the best as it provided the best learning environment.
- I was able to learn android programming. I have wanted to but have not had the excuse or time to learn it till now
- relevant speakers from the industry coming to class to talk about software development. practices. Learning about design patterns, and different industry stuff like that
- The practical aspects of it and how relevant it is for our future success as Computer Scientists/Software Engineers.

CORE REQUIREMENTS

COMMITMENT

You agree that you understand that this class is a LOT of work and that you will RESERVE adequate time and energy for working with your team on the project.

Block times on calendar!

Core Requirements-1

There must be Enough Work for four students for a semester

1. At least three different categories of users (maybe: administrators, managers, users)
2. Multi-User system (i.e. at same time multiple users using it) Can be waived depending on project.
3. Database tables have complex relationships.
4. Typically - Significant GUI (depends on project)

- Extra components
  - Network-based,
  - Threading, Parsing,
  - Mobile,
  - Other?

Core Requirements-2

- The application will need server and client codes.
- The front end client will be Android.
- The back end server will use Springboot framework.
- *you must be able to demonstrate running program and show source code, tests etc to the TAs*.

- You must let me (and your TA) know ahead-of-time which parts of project your team will actually build and which parts will be reused from external sources.

- You are welcome to use libraries – But code that you show your TA must be code you wrote.

Core Requirements-3

1. Use gitlab to manage tasks.

2. Use GIT for source control. We will provide GITLAB server.

3. We will provide web and database server hosting for your project.

TWO MAIN RULES

1. ASK FOR HELP. Must let TA or instructor know if you are stuck for more than 48 hrs. (Newbies – 24hrs)

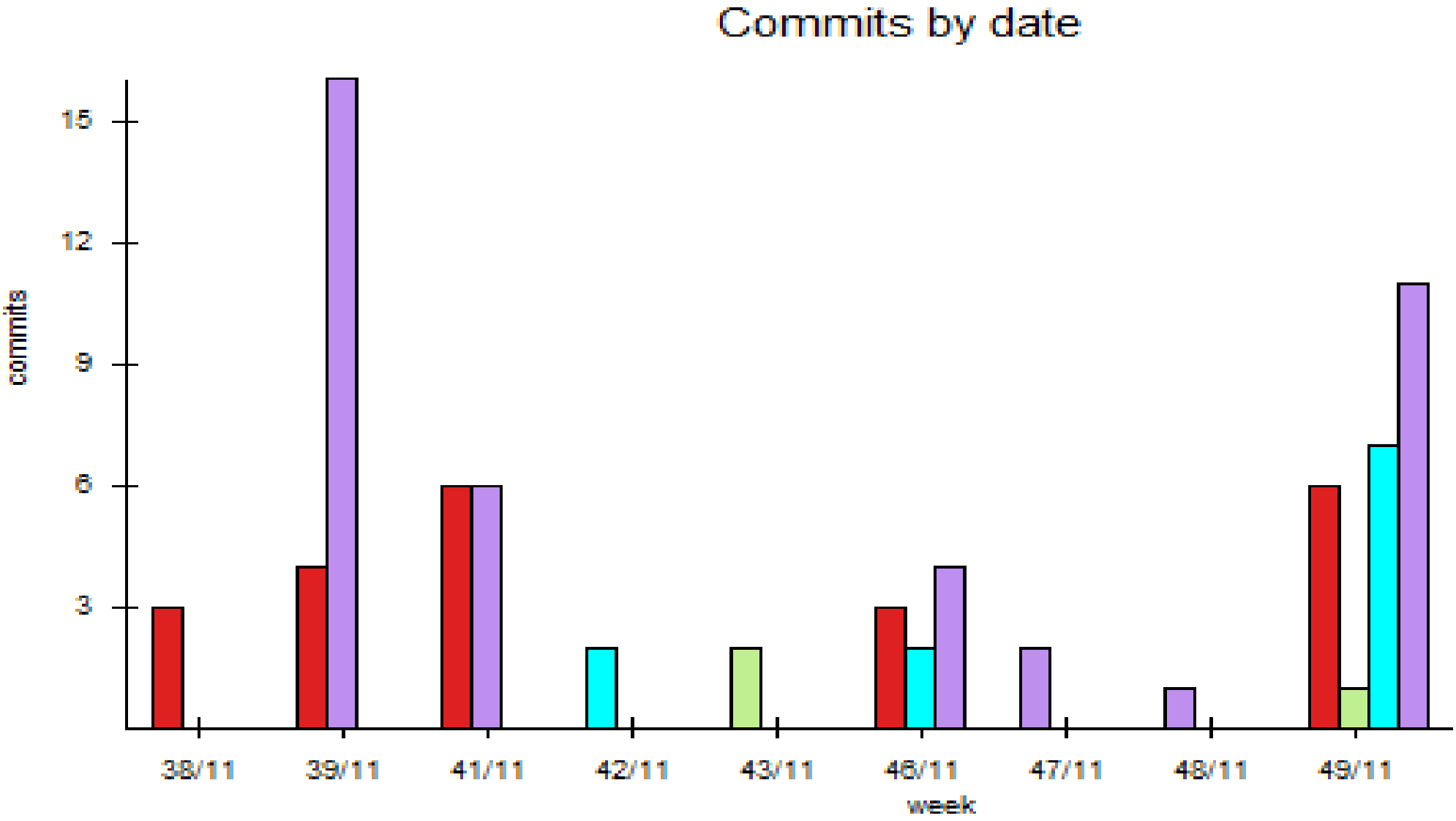
2. Must PUSH on GIT EVERY DAY that you work (approx 2 or 3 times a week minimum)

This is NOT Coding

- Although a necessary part of most projects, the below are not considered coding:
  1. creating html files (javascript that you write is code)
  2. creating images (like bmp, jpeg etc)
  3. creating xml files
  4. using tools to create GUIs
  5. creating database tables (unless you write sql which you should not)
  6. populating tables with data
  7. similar activities…

- If you do participate in the above activities – make sure you do that as a minor part of your overall effort. Most work should go towards writing code. [variables/expressions/if-then-else/loops/methods/… - you get the idea ☺]

ACCOUNTABILITY



- We will use CATME for peer evaluations!

MINUTES OF MEETING		GROUP #		DATE?	
	STUDENT NAME (INITIALS)	Present?	Late? Informed of absence?	OLD ACTION ITEMS	STATUS
1					
2					
3					
4					
	MEETING CHECKLIST				
	Have Written Agenda for meeting?				
	Every one asked to prepare for meeting (give specific (so that meeting can be productive) ahead of time?				
	Every one did prepare for meeting?				
	AGENDA/DISCUSSION SUMMARY				

	STUDENT NAME (INITIALS)	NEW ACTION ITEM	DUE DATE
1			
2			
3			
4			

Team Meeting Form

we will use a google form

Meetings with instructor/TA