

CS 6348 Class Project

Due on April 25th, 2018, Midnight

1. Project Requirements

As a part of this project, you are asked to develop a **secure** application for handling **sensitive data**. Here are some suggestions:

- Add security to some common cloud applications:
 - encryption support to Dropbox, so that you can encrypt files before it is stored at Dropbox,
 - encrypting google calendar, using encrypted web development framework Mylar (<https://css.csail.mit.edu/mylar>)
 - Other cloud apps??
- Testing some existing data management products for security vulnerabilities (e.g., running some sql injection tests etc.).
- Develop a novel blockchain based solutions for accountable data sharing.
- Test an interesting Internet of Things product for security and/or privacy

Please check with me first before you choose your topic. Please note that part of your grade will depend on the novelty/difficulty of the project.

2. Submission Guidelines

Please follow the following requirements:

- Please work in groups of size at most four (at least three).
- Please submit your code and a report that is maximum five pages long, single spaced, 11 font size with at least 1 inch margins on all sides.
- All submissions should be through Elearning.
- Use any programming language you want.
- Demonstrate your work. : **Demo times will be announced later.**

In the project report, please discuss the following:

- Major steps of the implementation,
- The difficulties you faced during implementation,
- The division of labor among group members,
- Usage of the software with screenshots (if applicable)

3. Grading

Grading will be based on the following points:

- Originality/Difficulty/Novelty (30%)
- Implementation correctness (50 %)
- Report/Demo (20%)