

Project Requirement

Important Dates

- By 09/09/2024, email the instructor with a brief description of your proposal idea.
- By 09/16/2024, finalize the project proposal and submit it on Canvas
- By 11/18/2024, finalize the project report and submit it on Canvas
- By 12/02/2024, project presentation

Initial Project Ideas

Choose one of the topics discussed in lectures, or you can come up with your own (e.g., ideas generated from the paper that we read). Pick up your partners. Students are encouraged to have initial project proposal meetings with the instructor.

Your projects may take the following approach

- survey on a particular security-related topic
- come up with ideas to improve an existing mechanism/design
- implement your new design
- evaluate your implementation

The proposal (**<= 3 pages** excluding references) should include, but not limited to

- problem statement
- some related works (other approaches)
- your intended approach
- project outline

Project Reports

Project reports are expected to be at least 5 pages long for individual projects, and $(5 + \text{number_of_members} * 2)$ pages for group projects. For example, for a group of three, the report should be at least 11 pages. The maximum group size is 4.

A good report must answer the standard questions about any research project. The following format is suggested. Please note that the bulk of the report should be Sections 4 and 5.

1. **Abstract:** WHAT did you do, WHY was it important, WHAT were your high-level results?
2. **Problem Statement:** WHAT is the problem you attempted to solve?
3. **Prior Work:** HOW have others approached your problem, and WHY were they only partially successfully?
4. **Research Approach:** WHAT was your approach to solving your problem? WHAT did you build? WHAT was your experimental methodology in terms of instrumentation, data collection, analysis, etc.? Include figures to describe your architecture and to assist in the presentation of your algorithms and analyses.
5. **Results:** WHAT were your results? HOW did you evaluate your work and WHAT were your figures of merit? Include graphs, charts, or other ways to visually describe your results.
6. **Lessons Learned and Future Work:** If you knew then what you know now, WHAT would you do differently? WHAT questions are left for future research?
7. **Summary and Conclusions:** Summarize your project and place your results in an overall context.
8. You may add appendices to document any additional material you wish to include with your report, such as code, API definitions, or system architecture block diagrams.