



Faculty of Engineering-Cairo University

## Cyber Security Training – Initial Proposal – Team 3

### Team Members:

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# Project Ideas

## I. Anti-Virus System:

- Assumptions: any user can use
- Input: newly downloaded files to be scanned
- Output: report on the scan, and action taken
- Limitation: scan certain directories, scan specific family of malware
- Features:
  - Real-time scanning (user pulls to scan when he wants to)
  - Scanning Docx and PDF files
  - Providing the root user with a report of programs/files that have malicious activity, to get permission to delete them
  - Scanning websites the user enters and warning him if there's a malicious activity
  - Block Keylogger 😎
  - System optimization: can help speed up your device by removing unnecessary files, freeing up disk space, and optimizing system settings.
  - Enable the user to whitelist directories which aren't scanned but needs permission before moving any files to it.
  - User-friendly Interface

## **II. Ad Blocker:**

- Assumptions: Work on specific ad types
- Input: web page
- Output: ad blocked web page
- Limitations: downloaded as an extension
- Features:
  - Blocking all ads on the website
  - Downloaded as an extension, or program(choose the easier)
  - Block tracking: Block tracking features that websites use to monitor your online activity and collect data about you.
  - Whitelist: a feature that allows you to whitelist specific websites that you trust so that ads on those sites will not be blocked.

## **III. Automatic Pen-tester**

- Input: IP address of a webserver
- Output: auto-pentester automatically detects the active elements (login fields, search bar, hidden and active directories, common web vulnerabilities, etc.) and tries to penetrate each.