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# Cybersecurity Final Project: Deliverables & Submission Guidelines (Revised)

This document outlines the final deliverables, submission instructions, and grading criteria for your cybersecurity final project. The project is your opportunity to apply the concepts and skills learned throughout this course to a practical, hands-on challenge.

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## Project Deliverables

Your entire project will be submitted as a single GitHub repository. This repository is the complete deliverable and must contain everything needed to understand, run, and evaluate your work, including the link to your video presentation.

### Part 1: Your GitHub Repository

Your repository must be well-organized and contain the following:

- **Source Code:** All your source code (e.g., `.py`, `.java`, `.c`, etc.), preferably in a `src` or `app` folder. The code must be clean and well-commented.
- **The `README.md` File:** This is the homepage for your project. It **must** contain:
  - **The link to your video presentation** at the very top.
  - A clear description of the project's purpose.
  - A list of all dependencies and libraries required.
  - Step-by-step instructions for setup and execution.
  - A usage guide with examples.
- **`.gitignore` File:** A file that specifies which files and directories Git should ignore.

### Part 2: Final Writeup

Your **5-7 page report in PDF format** must be included in the repository, preferably in a `docs/` or `report/` folder. The report must contain:

1. **Introduction & Purpose ("The What")**
2. **Technical Implementation ("The How")**
3. **Justification & Analysis ("The Why")**
4. **Conclusion**

## Part 3: Video Presentation

You must record a **10 to 15-minute video presentation** of your project. The video should be a concise and professional walkthrough that includes:

- A brief introduction to the problem you are solving.
- A **live demonstration** of your tool in action.
- A brief walkthrough of the most important parts of your code and architecture.
- A summary of your project's results and conclusions.

Host your video on a platform like YouTube (set to "Unlisted") or Vimeo.

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## Recommended GitHub Repository Structure

A well-organized repository is a key part of a professional project.

```
your-project-name/  
├── .gitignore      # Ignores files like virtual environments, compiled code, etc.  
├── README.md      # Your project's main documentation and user guide.  
├── requirements.txt # Or package.json, pom.xml, etc. Lists all dependencies.
```

```
|
├── src/                # For all your source code.
│   └── ...
├── docs/               # For all supporting documentation.
│   └── Final_Writeup_LastName.pdf
└── ...                 # Other folders like 'data/' or 'tests/' as needed.
```

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## Submission Instructions

1. Create a **public** GitHub repository and push all your project files (code, writeup, etc.).
2. Record your video presentation and upload it to a hosting service (like YouTube).
3. Place the link to your video at the top of your `README.md` file in the repository.
4. Double-check that your repository is set to **public** and your video link is accessible.
5. Copy the URL for your main repository page (e.g., <https://github.com/your-username/your-project-name>).

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## Grading Rubric (100 Points Total)

Component	Criteria	Points
<b>GitHub Repository</b>	<b>Functionality:</b> The program runs, is free of major bugs, and achieves its goals.	20
(40 Points)	<b>Code Quality &amp; Repo Structure:</b> Code is well-commented and organized. The repo is well-structured.	10
	<b>README &amp; Documentation:</b> The <code>README.md</code> provides clear, comprehensive setup and usage instructions.	10
<b>Final Writeup</b>	<b>Purpose &amp; Introduction:</b> The problem and project goals are clearly defined.	10
(40 Points)	<b>Technical Explanation:</b> The technical implementation is explained with sufficient depth and accuracy.	15
	<b>Justification &amp; Analysis:</b> The rationale for technical choices demonstrates critical thinking.	15
<b>Video Presentation</b>	<b>Clarity of Explanation:</b> The project's purpose, function, and results are explained clearly and concisely.	10
(20 Points)	<b>Effectiveness of Demonstration:</b> The live demo successfully showcases the project's capabilities.	10