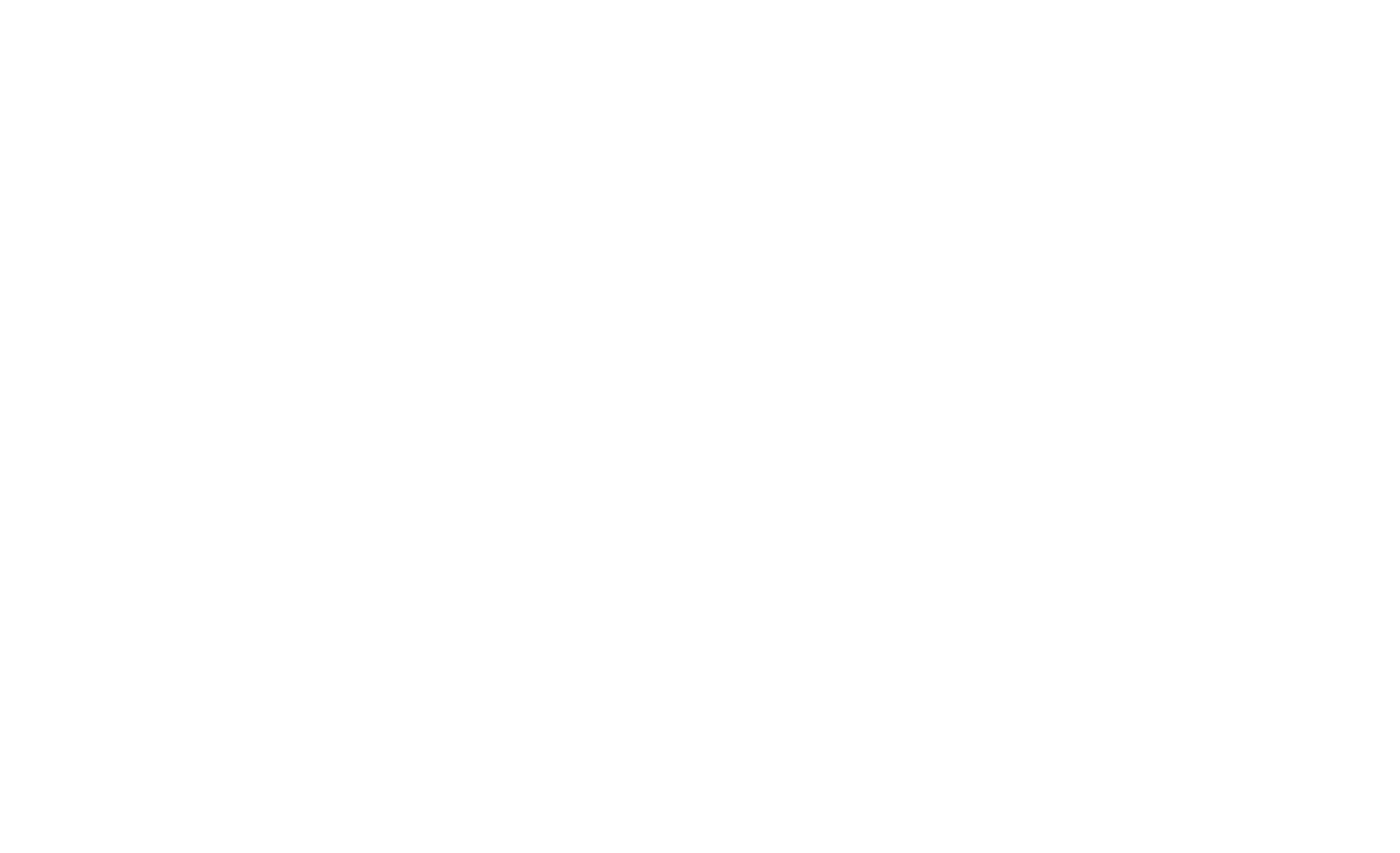
Background pattern

Description automatically generated



**Academy 2023**

**Project Proposal**

**Only areas highlighted yellow need to be completed.**

|  |  |
| --- | --- |
| Project Details | |
| **3.1 Student Name(s)**  Do not include your full last name. | Amrit S (working with Samuel W1) |
| **3.2 Project Title**  This will be used to identify your project. | Cybersecurity Toolbox |
| **3.3 Brief Description & Aims**  Include a summary of about a paragraph stating the idea for your project.  Also include a bullet list of aims you want to achieve in your project.  Your project ‘completeness’ will be marked against this list based on how many you meet. (e.g., 7 out of 10 points met = 70% completed). This mark will contribute heavily towards your final mark. | We would like to build a suite of cybersecurity related tools in Java, Scala or a similar language. This will include:   * a keylogger * a packet analyser * a hash function generator * a variety of other encryption algorithms: Caesar cipher, Beaufort Cipher etc. * steganography tools * a password tester * a password strength checker   we may expand this list and add other tools and a graphical user interface if time permits. |
| **3.4 Deliverable(s) to be submitted**  Highlight all that apply.  Your project deliverables mark will be obtained based on this list.  Where your main submission is code or a virtual machine, you should create a short document explaining how to run your files. | Report/Presentation/Code/Virtual Machine/Live Demo/Screen Recording/Images/Other (specify here) |
| **3.5 Would you like to be considered for a presentation slot during last week?**  **A presentation slot allows you to give a demo or talk about your work to students, staff and any industry guests who attend the meeting.**  Highlight your answer. | Yes / No |
| **3.6 Would you be happy to potentially have your project idea adapted to become an available project for students to pick in following years?**  Highlight your answer. | * Yes, provided my student name is used in credit for the idea * Yes, provided it is kept anonymous * No |

|  |  |
| --- | --- |
| Legalities & Ethics | |
| **3.7 Statement**  Please read this carefully. Contact your project supervisor if there is any part you are unsure of or feel you cannot meet. | * I will follow all laws and regulations when completing this project. This includes only performing experiments/testing on hardware, software, and networks that I own and have full permission to do so and not capturing data from other people without their full consent. * I will consider any legal and ethical concerns with my project and state how I will address these below. * I will not start working on my project until it has been authorised and will not modify the plan without first contacting my project supervisor. |
| **3.8 Legal & Ethical Concerns & How These Are Addressed**  If you identify any potential areas where legalities and ethics could be relevant, please state them here and how you will address these concerns.  If you feel there are none, please enter ‘None identified’. | All our tools are intended to be used for ethical purposes, to test and find vulnerabilities in networks rather than to exploit those same vulnerabilities. Ultimately it comes down to the user whether or not the tools are used ethically. |
| **3.9 Declaration**  Enter your student name (or names if completing a group project) showing you have read, understood and agree to the statement above in 3.7.  Insert date next to each name. | Amrit S 07/07/2023  Samuel W1 07/07/2023 |
| **3.10 Your Project Supervisor & Main Point of Contact** | Jared.S |