

Summary of chosen orientation topics

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Introduction

With this document, I would like to highlight the topics I chose for the implementation of this project, providing a support for each learning outcome.

Learning outcomes

Topic	About	Activities	Profession
Cyber security	<p>Authentication, Authorization & Data Protection Ensuring user data is encrypted and access is secure.</p>	<ul style="list-style-type: none"> - Implementing JWT token authentication and 7-day expiration logic . - Hashing passwords using ASP.NET Core Identity - Configuring CORS policies and enforcing HTTPS - Securing API endpoints against unauthorized access Analysis-Document.docx. 	Security Engineer (or Backend Security Specialist)
Software development	<p>Full-Stack Application Building Creating the functional logic, APIs, and database connections.</p>	<ul style="list-style-type: none"> - Developing RESTful APIs with ASP.NET Core 8 - Managing SQL Server database migrations and seeding test data - Writing business logic in C# 	Software Engineer (or Full-Stack Developer)
Data analysis & analytics	<p>Operational Insights & Visualization Monitoring trends in donations, volunteer shifts, and inventory.</p>	<ul style="list-style-type: none"> - Creating data visualizations (charts) using the Recharts library - displaying real-time dashboard metrics for staff and admins 	Data Analyst (or BI Developer)

Topic	About	Activities	Profession
Media design	<p>User Interface (UI) & User Experience (UX)</p> <p>Designing how users interact with the dashboard</p>	<ul style="list-style-type: none"> - Designing responsive React pages using Tailwind CSS - Creating user-friendly forms with validation and error handling - Creating logo & poster - 	Frontend Developer (or UI/UX Designer)