

ADAPT Community Network Systems Design Document

August 27, 2025



Systems Design Document Attendance Tracker

Version 1.0

Revision History

Date	Version	Author	Changes



Contents

SECTION 1 1. Project name and Description......4 2. Stakeholders ?? 3. Assumptions ?? 4. Core-features ?? **SECTION 2** Functional Requirements......3 2. Scalability?? 3. Security.....?? 4. Reliability......?? 5. Maintainability?? **SECTION 3** System Architecture......3 2. Technology Stack ?? 3. System Components ?? **SECTION 4** Module Design ______ 3 1. Authentication & Authorization Module.....?? 2. Class Management Module......4 3. Reporting Module?? 4. Attendance Recording Module.....??

SECTION 5

	Database Design 1. ER Diagram 2. Schema Design 3. Indexes	4 ??
SECT	ION 6	
	API Design	4 ?? ?? ??
SECT	ION 7	
	Security Design. 1. Authentication/Authorization. 2. Data Encryption. 3. Security Auditing. 4. Vulnerabilities. 5. Security Stack.	4 ?? ?? ??
SECT	ION 8	
	Deployment Architecture 1. Environment Setup (Development, Staging, Production). 2. Scaling Strategy. 3. Monitoring Stack.	?? ??
SECT	ION 9	
	Testing Strategy 1. Unit Testing. 2. Integration Testing. 3. Acceptance Testing. 4. Performance Testing. 5. Security Testing. 6. Automated Testing.	?? ?? ?? ??

SECTION 10

	Maintenance and Monitoring	3
	1. Logging	
	2. Alerting	??
	System Health Montioring	
	4. Error Tracking	.?
OFOT	10N 44	
2FC I	TION 11	
	Backup and Recovery	3
	1. Backup Strategy	
	2. Disaster Recovery	
SECT	TION 12	
	Risks and Mitigation	3
	1. Technical Risk	
	2. Mitigation Strategies	
SECT	TON 13	
	Future Enhancements	3
	1. Roadmap	
	Scalability Considerations	



1 Project Overview

1.1 Project Name:

This project will be called the ADAPT Community "<u>Attendance Tracker</u>", or just Attendance Tracker. For now, I will opt to keep it simple until a more creative or appropriate name is proposed.

1.2 Project Description:

This project was proposed and created with the goal of streamlining and consolidating the workflow ADAPT Community network specialists into one platform. Our responsibilities Include the following:

- 1. Taking daily attendance for our classes
- 2. Adding new students to our classes
- 3. Creating and removing classes from our schedules
- 4. Submitting weekly schedules
- 5. Translating class and student data to pre-styled excel sheets

As of now, all of the responsibilities above must be done manually, which is a common source of stress for the specialists. At its completion, the project will allow for the automation for every single responsibility in one place.

1.3 Stakeholder:

This project was proposed by coworker Wilma Cox, and will be supported by Shaniece Frank, Peter Cobb, and Chevonne Brown.

1.4 Assumptions:

Initially, this project was started in May, with a release sometime in September. Unfortunately, due to hardware failure, and a priority on another ADAPT project for jeopardy score keeping, the completion date for the first version had to be pushed back. With a new laptop, and the scorekeeping project completed, there can now be clear timelines for each milestone. Moving forward, I will proceed with the following assumptions:

Resource Assumptions:

- Development will be handled primarily by me, with UI/UX and general aesthetics handled by Wilma Cox.
- Specialists will create test classes alongside test students for validation.
- Specialists will work within a stable and easy to use environment.

Technology Assumptions:

- For the back-end, all data processing will be done with <u>ASP.NET</u>, with views being handled By HTMX and <u>Alpine.is</u> for interactivity.
- Class and student data will be exported to the official specialist, pre-styled excel sheet.
- All class and student data will be managed by a relational database, most likely PostgreSQL.

Scope Assumptions:

- Version 1.0 will include the ability to add classes, students, and export to excel sheets.
- Additional features like the admin dashboard will be released with later versions of the app.

Risk Assumptions:

Dependency Assumptions:

- Specialists will access the application through modern browsers (Chrome, edge, Safari, etc).
- Application will be hosted on existing IT infrastructure.

Version 1.0 release date - 10/1/25

- Will release with the ability to add classes, students, and export them to excel

Version 1.1 release date - **11/1/25**

- Will release with the an admin page for supervisors to view specialists classes

1.5 Core-features:

This project as mentioned before will consolidate every single clerical responsibility into a single app to reduce complexity and improve efficiency. Here is a summary of the features:

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