



Final Project Report

PART B: ARTIFACT INDEX & VERSION HISTORY

Project Title Student event Planner

Presented by Yes we can

66070501004	Kanyavan Tayaniphan
66070501005	Kanlaya Sutthapanya
66070501034	Pemika Chongkhwanyuen
66070501050	Veerisara Panviripakorn
66070501070	Jantarat Sanglao
66070501080	Monsicha Konteing
66070501082	Supisara Wongphatthanakit

CPE334 Software Engineering

Semester 1, Academic Year 2025

Department of Computer Engineering Faculty of Engineering

King Mongkut's University Of Technology Thonburi

Table of Contents

Table of Contents	i
List of Figures	ii
List of Tables.....	iii
B1. Introduction	1
B4. UI/UX Artifacts.....	7
B5 Technical & QA Artifacts.....	10
B6. Project Management Artifacts.....	12

List of Figures

FIGURE 1 B4-1: LOGIN PAGE UI	9
FIGURE 2 B4-2: DASHBOARD UI.....	9
FIGURE 3 B4-3: EVENT LIST UI	9
FIGURE 4 B4-4: EVENT DETAILUI.....	9

List of Tables

TABLE 1 B2-1: REQUIREMENTS FILE IDENTIFICATION	2
TABLE 2 B2-2: REQUIREMENTS VERSION HISTORY.....	3
TABLE 3 B3-1: DIAGRAM CHANGE LOG (DOCUMENT HISTORY).....	4
TABLE 4 B3-2: REQUIREMENT-TO-DESIGN TRACEABILITY MATRIX.....	5
TABLE 5 B4: LIST OF UI/UX ARTIFACTS	7
TABLE 6B5: TECHNICAL & QA ARTIFACT INDEX	10
TABLE 7 B6: PROJECT MANAGEMENT ARTIFACTS INDEX	12

B0. Executive Summary

This document serves as the Artifact Index and Version History for the Student Event Planner project. Its purpose is to provide a structured overview of all project artifacts produced throughout the software development lifecycle, including requirements, design models, UI/UX assets, technical documentation, testing evidence, and project management records.

Rather than duplicating the full content of these artifacts, this report functions as a navigation guide, enabling readers to quickly locate specific documents using standardized File IDs. Each artifact reflects the project's iterative evolution across multiple development sprints and supports the analytical discussions presented in Part A.

B1. Introduction

The artifacts in this report are organized according to the major phases of the Software Development Life Cycle (SDLC), including requirements analysis, system design, implementation, testing, and project management.

All documents are grouped into five main folders:

1. Requirements Artifacts
2. System Design Artifacts
3. UI/UX Artifacts
4. Technical & Quality Assurance Artifacts
5. Project Management Artifacts

Each artifact is identified using a standardized File ID (e.g., REQ-04, DES-02, QA-01), ensuring traceability and consistency when referenced in Part A. The numbering of artifacts follows the chronological order in which they were created, reflecting the project's progression from initial planning to final implementation.

B2. Requirements Artifacts

B2-1. Requirements File Identification

This table lists the requirement file identifiers (REQ-01 to REQ-05) used in the project, along with their corresponding titles and descriptions.

Table 1 B2-1: Requirements File Identification

File ID	Artifact Name	Source Lab	Description & Version History
REQ-01	Initial requirements	Lab 4	Baseline functional and non-functional requirements
REQ-02	Authentication Requirements	Lab 6	User login and authentication features
REQ-03	User Profile Requirements	Lab 6	Profile viewing and editing functions
REQ-04	Event Management Requirements	Lab 6	Event creation, editing, and deletion
REQ-05	Registration & Check-in Requirements	Lab 6	Event registration and QR code check-in
REQ-06	System Quality Requirements	Lab 6	Performance, security, and usability
REQ-07	Requirements Modeling	Lab 11	representing system requirements

B2-2. Requirements Version History

This table summarizes the version history of the project requirements, highlighting key updates and revisions made during the development lifecycle to reflect changes in scope, implementation decisions, and requirement refinements.

Table 2 B2-2: Requirements Version History

Version	Date	Author	Description & Version History
1.0	25 August 2025	Monsicha, Jantarat	Initial requirements definition.
1.1	18 September 2025	Project Team	Updated requirements after implementation review
1.2	22 November 2025	Project Team	Marked dropped and deferred features

B3. System Design (System Design Artifacts)

B3-1. Diagram Change Log (Document History & Version Control)

This table presents the list of files located in the 2_System_Design folder, along with details of design document changes in each version.

Table 3 B3-1: Diagram Change Log (Document History)

File ID	Artifact Name	Source Lab	Description & Version History
DES-01	Initial System Design	Lab 4	Version 1.0 (Initial Draft): Contains the primary Use Case Diagram and Class Diagram for the MVP scope. Includes the initial Sequence Diagram for the Event Registration process based on the MVC architecture pattern
DES-02	Refined System Design	Lab 5	Version 2.0 (Refined): Updated the Class Diagram to include Document and Notification entities. Added a specific Activity Diagram for the "Document Upload & Verification" process and introduced the Package Diagram.
DES-03	High-Level Design & Patch	Lab 11	Version 2.1 (Security Patch): Focuses on the Local User Login and Session Timeout Management features. Includes detailed Sequence Diagrams demonstrating session expiration logic and inactivity warnings.
DES-04	Final System Architecture	Presentation	Version 3.0 (Final Release): The finalized Layered Architecture and Component Diagram that reflects the actual implementation (React + Firebase) and the complete module structure used in the final product .

B3-2. Requirement-to-Design Traceability Matrix (Brief)

This matrix maps key functional requirements to specific design artifacts to ensure all approved features have been properly modeled.

Table 4 B3-2: Requirement-to-Design Traceability Matrix

Feature/Requirement Name	Requirement Source	Mapped Design Artifact (Diagram Type)	Design Source File	Location / Page
Local Authentication	REQ-07	Sequence Diagram: Local User Login Process	DES-03	Pg. 2
		Use Case Diagram: Local Login System	DES-03	Pg. 1
Session Security (Timeout)	REQ-07	Sequence Diagram: Session Timeout Management	DES-03	Pg. 4
Event Registration	REQ-05	Sequence Diagram: Event Registration (Happy/Error Path)	DES-01	Pg. 6
		Activity Diagram: Event Registration Workflow	DES-01	Pg. 2

Event Verification (Admin)	REQ-04	Activity Diagram: Document/Event Verification Process	DES-02	Pg. 2
System Data Structure	REQ-02, 03, 04	Class Diagram: Refined System Entities (User, Event)	DES-02	Pg. 3
System Architecture	REQ-06	Architecture Diagram: Final Layered Architecture	DES-04	Pg. 2

B4. UI/UX Artifacts

This section lists the UI/UX design artifacts used throughout the project. These artifacts include screen designs and prototypes created during Lab 6 and serve as references for the actual implementation developed in Lab 13. The comparison between design and implementation is discussed in Part A, Section A3-2.2.

Table 5 B4: List of UI/UX Artifacts

Artifact ID	Screen Name	Description	Design Tool / Source
UI-01	Login Page	Login interface with email and password input and alternative login options	Figma Prototype (Lab 6)
UI-02	Sign Up Page	User registration screen for creating a new account	Figma Prototype (Lab 6)
UI-03	Role Selection Page	Interface for selecting user roles (Student, Organizer, Admin)	Figma Prototype (Lab 6)
UI-04	Student Dashboard	Dashboard displaying upcoming events, notifications, and summary information	Figma Prototype (Lab 6)
UI-05	Admin Dashboard	Administrative dashboard showing system overview, statistics, and issue reports	Figma Prototype (Lab 6)
UI-06	Event List Page	Event browsing page with search, filter, and category options	Figma Prototype (Lab 6)

UI-07	Event Detail Page	Detailed event information including date, time, venue, and registration	Figma Prototype (Lab 6)
UI-08	Create Event Page	Form for organizers to create and publish new events	Figma Prototype (Lab 6)
UI-09	Edit Event Page	Interface for editing or cancelling existing events	Figma Prototype (Lab 6)
UI-10	QR Code Check-in Page	QR code display for event registration and attendance check-in	Figma Prototype (Lab 6)
UI-11	Notification Page	Page displaying system notifications and reminders	Figma Prototype (Lab 6)
UI-12	Profile Page	User profile page showing personal and academic information	Figma Prototype (Lab 6)
UI-13	Account Settings Page	Interface for managing account information, password, and notification preferences	Figma Prototype (Lab 6)

The following table lists the UI/UX design artifacts created during the design phase of the project. These artifacts were developed using Figma in Lab 6 and serve as design references for the system implementation. A detailed comparison between the design prototype and the actual application is discussed in Part A, Section A3-2.2.

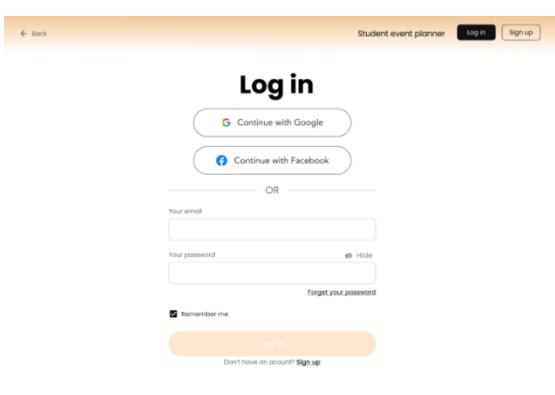


Figure 1 B4-1: Login Page UI

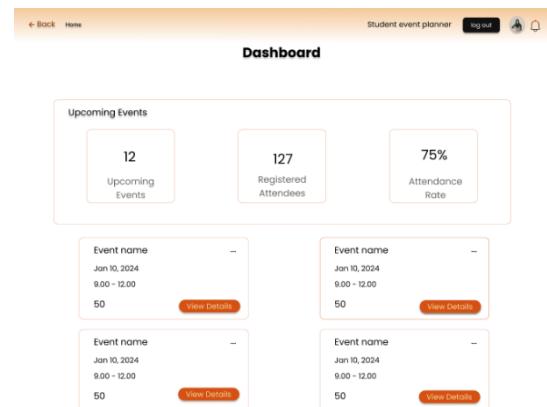


Figure 2 B4-2: Dashboard UI

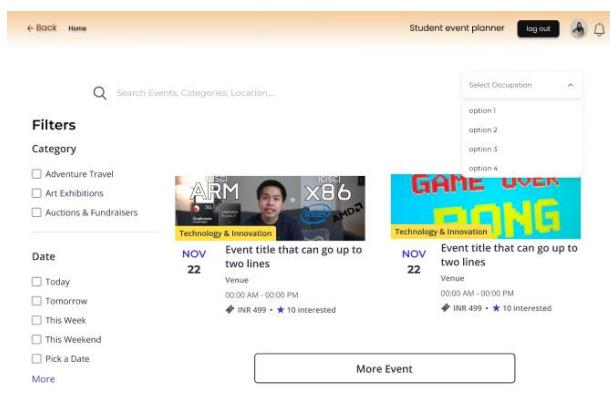


Figure 3 B4-3: Event List UI

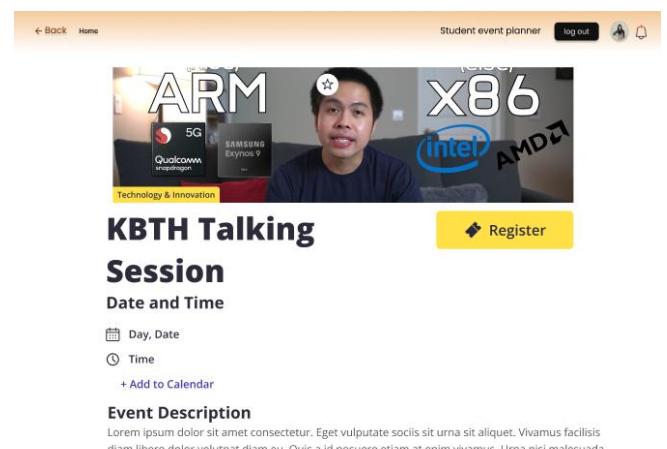


Figure 4 B4-4: Event Detail UI

B5 Technical & QA Artifacts

Table 6B5: Technical & QA Artifact Index

File ID	Artifact Name	Source Lab	Description & Version History
TECH-01	Architecture Decision Record (ADR) & Technical Stack	Lab 8 (ADR / Sprint 2 Setup)	<p>Version 1.0 (Baseline) Extracted ADR content including Tech Stack (React/Vite, Firebase services, Bootstrap), Session Strategy (Firebase Auth JWT tokens, HTTP-only cookies, token refresh, Firebase Admin SDK verification), User Records Storage (Firestore users collection with security rules/custom claims), Redirect URIs and Hosting URLs (GitHub repo, Firebase Hosting site, demo clip), and Protected Route Evidence (Auth 200 and Unauth 401 screenshots).</p> <p><i>Key Content:</i> Makes architecture decisions auditable and verifiable.</p> <p>Version 1.1 (Refinement) Cleaned layout, removed non-ADR content, added captions for screenshots.</p> <p><i>Value:</i> Faster verification for TA, improved readability.</p>
QA-01	E2E Testing Plan & Execution	Lab 10 (Testing)	<p>Version 1.0 (Baseline) Added Playwright E2E testing framework with setup evidence, complete E2E Test Plan covering Welcome, Register, Register Fail, Login, and Homepage scenarios, test execution details (local server, browsers, test data), and evidence screenshots/output (Playwright HTML report</p>

			<p>pages).</p> <p>Key Content: Proves real E2E execution with comprehensive test coverage.</p> <p>Version 1.1 (Enhancement) Added CI snippet screenshot (if included) and tightened scenario descriptions.</p> <p>Value: Supports "process over product" grading approach.</p>
QA-02	Maintenance & Refactoring Strategy	Lab 11 (Maintenance)	<p>Version 1.0 (Baseline) Extracted only "Maintenance & Refactoring Strategy" section including Code Smell Identification (Duplicate Code risks), Impact Analysis (maintenance difficulty, bug risks, slow changes), and Refactoring Plan table (Extract Method for validation, Repository Pattern for DB queries, Separation of Concerns: Controller→Service→Repository).</p> <p>Key Content: Focuses on quality and maintainability concerns.</p> <p>Version 1.1 (Clarification) Added short header page explaining "What smells were found + planned fixes".</p> <p>Value: Makes document readable and purposeful, not just a content dump.</p>

B6. Project Management Artifacts

This section lists the key artifacts used to plan, track, and manage the "Yes We Can" project throughout its lifecycle, from initial scheduling to the final release.

Table 7 B6: Project Management Artifacts Index

File ID	Artifact Name	Source	Description & Version History
PM-01	Master Project Plan	Lab 6	<p>Version 1.0 (Baseline): Defines the 5-Sprint Roadmap, MoSCoW prioritization, and Risk Analysis.</p> <p><i>Key Content:</i> Identified "Admin Reporting" as a "Won't-Have" feature.</p> <p><i>Risk Identified:</i> R1 (Auth connection failure) and R6 (Unfamiliarity with Firebase).</p>
PM-02	Patch Planning & Estimation	Lab 11	<p>Version 1.1 (Maintenance): Detailed WBS and Effort Estimation for specific modules.</p> <p><i>Focus:</i> Detailed breakdown for "Local User Login" and "Session Timeout" features.</p> <p><i>Estimate:</i> Projected 9 days for Login implementation.</p>
PM-03	Sprint 4 Report & Release Plan	Lab 13	<p>Version 2.0 (Execution Status): Summarizes the "Release v1.0.0" readiness.</p> <p><i>Issues Logged:</i> Documented the "Cookies Error" and "Language Inconsistency" that caused timeline delays.</p>
PM-04	User Manual & Deployment Guide	Lab 13	<p>Version 1.0 (Final): Instructions for end-users (Students/Organizers) and system administrators.</p> <p><i>Deployment:</i> Steps for building npm run build and deploying to Firebase Hosting.</p>