# **PROJECT PLAN**

**[Project Number]** [35]  
 **[PROJECT TITLE]** Platinum AR/XR Project[]  
 **Prepared By:** Team  
 **Team Members:** [John Sullins, Alex Allen, Mitchell Allen, Brayden Brown, Bryce]  
 **Date:** [9/26/2025]  
 SER 401 Project Plan

## **TABLE OF CONTENTS**

* Project Description  
  + Overview
  + Global Trends
  + Market Analysis
  + Security Considerations
  + Key Requirements
  + Deliverables
  + Acronyms and Abbreviations
* Design and Architecture  
  + Design Description
  + Alternate Design Possibilities
* Implementation Strategy  
  + High-Level Work Breakdown Structure
  + Schedule / Timeline
  + Required Hardware
  + Third-Party Content
  + Quality
  + References / Sources of Information
  + Scalability
  + Other Special Considerations
* Process  
  + Process Description and Justification
  + Tools
  + Roles and Responsibilities
  + Location of Project Artifacts
  + Sponsor Communications
* Risk Management  
  + Identified Potential Risks
  + Mitigation Strategies

## **PROJECT DESCRIPTION**

### **Overview (ABET-2)**

This project is part of the SER 401 course at Arizona State University.

Our team is developing an Augmented Reality (AR) / Extended Reality (XR) application as part of the Mission To Psyche Platinum project. The final deliverable will include a functioning prototype, supporting documentation, and any artifacts required to ensure the solution is maintainable. The system will be developed using modern software engineering practices.

### **Global Trends (EM@FSE-E)**

######## TODO########

### **…..??????.......**

### **Market Analysis (EM@FSE-K)** ######## TODO########

……??????........We are not marketing our product

### **Security Considerations (SER-2)**

General considerations will include:

* Protecting sensitive user information, no account creation or personal info will be needed from users.
* Preventing unauthorized access to the application.
* Mitigating data loss, corruption, or downtime.  
   More specific considerations will be added once the project scope is defined.

## **KEY REQUIREMENTS (SER-2)**

At a high level, all SER 401 projects must:

* Be functional and demonstrate core client-requested features.
* Provide secure handling of data.
* Include proper documentation and testing.
* Be maintainable and scalable.  
   Detailed functional/technical requirements will be written once the topic is finalized.

## **DELIVERABLES (SER-1)**

Expected deliverables for any SER 401 project:

* Project plan document (this report).
* Requirements specification document.
* Design and architecture documentation (UML diagrams, etc.).
* Functional software prototype.
* Test plan and results.
* Final report and presentation.  
   Dependencies and order of deliverables will depend on the chosen project.

## **ACRONYMS AND ABBREVIATIONS (ABET-3)**

| **Acronym** | **Definition** |
| --- | --- |
| SER | Software Engineering |
| ASU | Arizona State University |
| UML | Unified Modeling Language |
| TBD | To Be Determined |

## **PROCESS**

### **Process Description and Justification (SER-1)**

We will use an **Agile-based process** for development. Agile allows for iterative delivery, regular feedback from the sponsor, and flexibility to adapt requirements. Bi-weekly sprints and sprint reviews will keep the team aligned with sponsor expectations.

### **Tools (SER-1, EM@FSE-O)**

* **Version Control:** Git/GitHub (for source code and documents).
* **Task Tracking:** taiga
* **Collaboration:** Slack / Discord / Zoom for communication.
* **Documentation:** Google Docs / git
* **Development Environment:**

### **Roles and Responsibilities (SER-1)**

* **Team Lead / Scrum Master:** Organizes meetings, ensures progress.
* **Product Owner Liaison:** Maintains communication with sponsor.
* **Developers:** Build and test the software.
* **Documentation Lead:** Ensures reports, diagrams, and artifacts are maintained.  
   Roles may rotate if needed to balance workload.

### **Location of Project Artifacts (SER-1)**

Artifacts (code, documents, diagrams) will be stored in a private GitHub repository, there will also be a working copy kept on google drive. All members will have access, and version control will ensure reliability and traceability.

### **Sponsor Communications (ABET-3)**

Team will meet with the sponsor bi-weekly via Zoom or similar tool. Meeting notes will be documented and stored in the repository for accountability. Will also have sponsor meetings on slack.

## **RISK MANAGEMENT**

### **Identified Potential Risks (SER-2)**

* **Team availability** – scheduling conflicts or uneven workload distribution.
* **Technical challenges** – unfamiliar frameworks, libraries, or platforms.
* **Integration issues** – third-party content or APIs may fail or change.
* **Timeline constraints** – academic deadlines may limit development time.

### **Mitigation Strategies (SER-2)**

* Frequent sponsor communication to clarify requirements.
* Clear task breakdowns and workload distribution.
* Research and training buffer time for new tools.
* Built-in buffer in project schedule for unexpected delays.

Specifics needed to be filled in….

* Project Overview (actual client problem & users)
* Global Trend (which theme applies)
* Market Analysis (actual competitors/alternatives)
* Security Considerations (specific risks)
* Key Requirements (functional specs)
* Deliverables (customized for sponsor expectations)
* Design & Architecture