# [Title of project] Technical Design Document

## [version number v\_xx.xx]

## Author: [Your Full Name]

# Introduction

## Rationale

What is this document going to cover? What are you trying to accomplish? How could you achieve it?

## Background

Describe any historical context that would be needed to understand the document and the system this document describes.

## Terminology

If the document uses any special words or terms, list them here and explain what they mean.

## Non-Goals

List and explain things here that you would like to add in but are not part of the core requirements.

## Proposed Design

Start with a brief, high-level description of the system you are building. The following sections will go into more detail.

# System Architecture

If the design consists of a collaboration between multiple large-scale components, list those components here, include diagrams [UML].

## Data types

Describe the variable data types you will be using and how they work.

## Data Model

Describe how the data is stored and used within this system.

## Interface/API Definitions

Describe how the various components talk to each other. What libraries you will be needing to access, how they work and a link to the API manual.

## Impact

Describe the potential impacts of the design on overall performance, security, and other aspects of the system. Keywords (Private, Public, Protected, Events, Runtime, Asynchronous, Coroutine, PlayerPrefs, Binary)

## Risks

If there are any risks or unknowns, list them here. Also, if there is additional research to be done, mention that as well.  
What are things you don’t know how to do? What you don’t understand? What you need to research?

## Alternatives

If there are other potential solutions which were considered and rejected, list them here, as well as the reason why they were not chosen.

# System Testing

## Testing

Show progress, error reports and explain fixes you used.

Photo/screenshot of error or issue   
Explain what the issue is   
Explain if you fixed and how