

# Winstogram (Web & UX for W.I.N.S.T.O.N.)

Project Definition Document (Initial Brief)

## Purpose of this document

The purpose of this document is to define a proposed project with enough information for an informed decision to be made on whether to approve the project to proceed.

This document is the **responsibility of the Project Team**.

Project approval is dependent upon the document being completed and reviewed by the teacher of the project course.

- If the project is approved, it can then begin planning and execution,
- If the project is not approved, the **Project Team** can review the project and resubmit for reconsideration.

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## 1. Project Definition Information

Project Name:	Winstogram
Project Team:	Joshua Kisnorbo
Mentoring Teacher:	Mr. Edwin Griffin
Proposed Project Start Date:	17/07/2023

## 2. Project Idea

Winstogram is a social media site that uses forums as its means to share information. It is designed to be a platform where someone can ask questions, share projects, have discussions on important topics and help other people.

Winstogram's physical counterpart holds a live stream to the robot dog that the site is based on. Whilst the dog is active, a stream of dog's vision will be displayed on the site that can be publicly viewed.

## 3. Project Purpose

Winstogram acts as a means of connecting groups of people together with similar interests. It is designed to work as a hub to start conversations, learn new things and help other people with things that you may share interest in.

## 4. Team Member Capabilities

Team Member	Capabilities
Joshua Kisnorbo	Knowledge of Python, HTML, CSS, JS, TS, and SQL Experience with Blender and Flask

## 5. Project Outcomes/Requirement Objectives

Outcome	Description
Post and display forums	The ability to start a new forum that can be viewed by all other users with custom headings and body information.

Concurrent user support	The ability to host multiple users on the same page concurrently, to allow many people to interact on the same page.
Live stream of Winston's vision	Display a live stream of Winston's vision (data from Blender) on its own page that can be publicly viewed by multiple users at once.
Interactions with posts	The ability to like, comment on, and save a forum on the site.
Admin access to database	The ability for the database to be accessed on the website by Admins only. This allows for moderation and management of the database away from the codebase.

## 6. Initial Scope of the Project

In Scope	Out of Scope
Database is web-based access only for admins	DDOS Prevention
Get image from blender	Public API
Show image sequence to user [live stream]	Capacity to connect to third-party sites
Display forums to users	
Comment, like and save forums	
Inspect and overwrite data with admin access	
Capacity to edit a post	

## 7. Time Objective

The timeframe for this project is: 15 Weeks.

## 8. Parties Involved

Party	Involvement
<i>Website users</i>	<i>Testing and review of features and user-interface</i>

## 9. Constraints

Constraint	Impact on Project Success (High/Med/Low)
Time (PyCon AU)	Med
24/7 Hosting and a Live Stream cannot be hosted on the same device, due to a Raspberry Pi not having the computing power to render in blender.	Med
Many concurrent users watching the stream may slow the server significantly	High
A second project is being done at the same time, which will decrease the amount of time that this project can be developed	High

## 10. Feasibility

Skill Required	Resource with skill / capability
<i>Database configuration and management</i>	<i>MySQL</i>
<i>Web-based interface</i>	<i>HTML, CSS, JavaScript</i>
<i>Project information / user documentation</i>	<i>Word</i>
<i>Server setup</i>	<i>Python/Flask</i>
<i>Connection to Winston</i>	<i>Python</i>

<i>Real time live stream</i>	<i>Python/Flask</i>
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Feasibility Scale: **100%**

## 11. Roles & Responsibilities

Team Member	Roles / Responsibilities
Joshua	Project Lead System Analyst Developer Front-end Design Back-end Development

## 12. Initial Issues

Issue	Description
<i>Lack of skills in front-end development – Joshua</i>	<i>Joshua is not trained in creating front-end that works well for a specific goal or target audience.</i>

## 13. Risks

Risk	Description	Impact of Risk (L M H)	Mitigation / Reduction
<i>Loss of data</i>	<i>Test/Production version of project gets corrupted/lost</i>	<i>H</i>	<i>Backup to GitHub on change to any code; Data backup every night.</i>

# 14. Deliverables, Timeframes and Dependencies

Timeframe estimate: 15 weeks

<b>Deliverable</b>	<b>Duration</b>	<b>Completion Date</b>	<b>Dependencies</b>
<i>Database</i>	<i>3 Days</i>	<i>End Week 1</i>	<i>None</i>
<i>Flask Server Setup</i>	<i>2 Days</i>	<i>End Week 1</i>	<i>None</i>
<i>Admin Interface</i>	<i>1/2 Week</i>	<i>End Week 2</i>	<i>Database setup</i>
<i>Forum Post</i>	<i>1/2 Week</i>	<i>End Week 2</i>	<i>Database setup</i>
<i>Forum Interactions</i>	<i>1 Week</i>	<i>End Week 4</i>	<i>Database setup Forum Post Setup</i>
<i>Live Stream</i>	<i>2 Days</i>	<i>End in Week 5</i>	<i>Flask server setup</i>
<i>Winston Controller</i>	<i>1 Week</i>	<i>End Week 6</i>	<i>Flask Server Setup Database Setup</i>