Fontys

› FOR SOCIETY

FONTYS UNIVERSITY OF APPLIED SCIENCES

ICT

VINO AI for students

Project Plan

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Version: 1.3

Status: In Progress

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1 CONTENTS

2 INTRODUCTION

This document is a personalized extension of the existing Project Plan made by Artur Kraskov, see Reference for a link. The background and more detailed description of the project are described in that document. There was a need for a separate document because we have different objectives and need to narrow down the scope to fit into a single semester.

2.1 Team

Name	Role	Responsibilities
Zeb Kuyper	**Developer**	Full-stack, UX research, sandbox, Project Lead
Margarita Fedulova	**Developer**	Full-stack, UX research, sandbox

2.2 Key stakeholders

Name	Role	Responsibilities
Eric Slaats	**Open Learning Stakeholder**	Project overview, feedback
Artur Kraskov	**Stakeholder, Product Owner, Founder**	Business communication, Overseeing the project

2.3 Project Goal

The main goal of the project is to make a start in development of VINO AI by creating a user-friendly UX-prototype and a functional software prototype that can be used to validate the conceptual operation of the system.

The scope this semester is narrowed down to the sandbox part of the application.

On a software level, applying and implementing process mining with an LLM powered backend proves to be the main challenge, while employing multiple AI Engineering techniques like agents, RAG and knowledge graphs.

On a business level, pitching and communicating the idea is a great challenge and proves that a great UX understanding serves to be a critical foundation for the project. Since we focus on optimizing processes, identifying them and standardizing methods are also crucial.

On a UX level, the complexity of the Universal Matrix framework is complex to understand at first, and lowering the learning curve is also essential for usability and user friendliness of the whole concepts behind VINO AI.

3 DELIVERABLES

The following section references the Project Deliverables in the main Project Plan. For more information see References.

Category	Deliverable
Functional Prototype and UX Validation	Functional prototype demonstrating key features
	UX research report validating usability and user value
User Journey and Interaction	Paper/software prototype clearly demonstrating user journey
	UX testing report with feedback and recommendations
Documentation and Knowledge Transfer	Comprehensive technical documentation and developer handover materials
Event Logging and AI Integration	Event logging system capturing user actions, data updates, and file changes
	Basic AI agent integrated and operational, using logged events
	Technical documentation including logic flows, diagrams, pseudo-code, and implemented code
Integration Roadmap and Initial Implementation	Roadmap detailing full-stack and data pipeline integration
	Initial integration completed and documented for core components

4 ASSUMPTIONS, CONSTRAINTS AND RISKS

4.1 Constraints

Category	Details
Time	18 weeks
Tools	Compute power, Cloud services, External API's
Technologies	Open-source, free

4.2 Assumptions

- It's assumed that users will have internet access and use modern browsers to access the system.
- It's assumed that users will access VINO AI primarily via a browser, meaning **web-application frameworks** should be prioritized.
- It's assumed that users will primarily use VINO AI to analyze **Open Learning projects** or **their parts**, which influences the toolkit used in the initial implementation.

4.3 Risk Assessment

Risk	Likelihood	Impact	Prevention	Mitigation
Time management	Medium	High	Emphasis on managing agenda. Seek help/feedback if needed	Focus on reaching milestones. Seek help/feedback if needed
Scope creep	Medium	Medium	Regular contact with coaches/peers/experts	Reconsider planning
Unexpected work	High	Low	Regular contact with coaches/peers/experts. (For future projects) Careful documentation	Check with the planning, make alterations if needed

5 PLANNING

Planning is done using Scrum methodology. Each Sprint takes 3 weeks, and by the end of each one there will be a Sprint Demo.

For more detailed information see our Trello board.

5.1 Milestones

Since we are working in Agile, the remaining sections will be filled as the project progresses.

Sprint	Scope	Key Deliverables
1	**Planning & Prototyping**	- Project Plan - Written user stories - Paper prototype - Student feedback report
2	**Requirements & Proof of Concept**	- FRD - Updated Project Plan - Use Cases - Architecture Design - Prototype 1
3		
4		
5		

6 CONCLUSION

The goal for this semester is to validate and prove the idea behind VINO AI. It will be achieved by creating functional UX and software prototypes. After the successful validation, integration with real-world stakeholders will take place.

7 REFERENCES

1. This document references the Project Plan available at:

VINO AI | Problem solving and process mining AI companion

2. Trello board:

Trello board

8 VERSION CONTROL

Version	Date	Author	Change
1.0	17-03-25	Margarita	- Created the first draft of the document
1.1	17-03-25	Zeb	- Added more context
1.2	31-03-25	Margarita	- Changed the template of the document - Updated Team, Stakeholders, Constraints, Assumptions and Risks
1.3	07-04-25	Zeb	- Small Revisions