

VisualPro - Research Proposal

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Abstract—This document provides the proposal of the Independent Project. After doing in-depth research and planning, the working title for this project is VisualPro.

Hypothesis: If visual scripting can write structure and logic of any desired language the user wishes, will this:-

- **A:** produce a more productive and better work environment.
- **B:** help newcomers code in any language without knowing different syntax per language.

Index Terms—Visual Programming, Proposal, Research.

I. INTRODUCTION

VisualPro aims to be a lightweight visual programming pad, which includes the following features:-

- Program in any language with ease.
- Enables users to write code in minutes.
- A simple Graphical User Interface (GUI) that changes the way Visual Scripting already works.

The prototypes will demonstrate C/C++ libraries working together with a different language, which plays a massive part to archive this task.

A. Potential growth to VisualPro

The dynamics of the custom languages allow new scripting languages. Consequently, it implies but is not limited to, Notebook and Stylus companies benefiting from this product. Take a look at (reference page) for more information on this topic.

B. Sections

The VisualPro Proposal document includes a Literature Review, Aims and Objective, Project Design, Resources and Planning and Reference List.

The Literature Review section contains segments of academic books and journals related to the project proposal. Within the extensive research, hand-picked articles and journals to show what technologies are required to make the idea plausible, narrowing down the project's association towards the author's study area.

After the Literature Review section, the Aims and Objectives section will give the reader an idea of how the final product will impact society and its user base.

The third section, Project Design, describes the outline of the project process, data collection, risks and limitations and ethical issues. These are essential points that decide if the project breaks any laws or pushes too many boundaries in today's society.

The Resources and Planning section include two sub-sections; Resources Required and Planning Chart. Resources Required sub-section involves Physical Resources (*if any hardware and equipment are required*), Human Resources (*if any staff are required*) and Other Resources (*if any software or other categories not been mentioned are required*). The planning Chart sub-section displays the tasks and time frame within a Gantt Chart, constructed by Microsoft Project [1],

which shows the reader whether or not the project is doable with the schedule given.

II. LITERATURE REVIEW

A. *Productivity*

B. *Visual Scripting*

C. *Markdown Languages*

III. AIMS AND OBJECTIVES

A. *Aims*

VisualPro software aims to increase existing software engineers, web developers, and other users in different professions. Productivity would increase and allow individuals to code in many languages without understanding different languages. The software aims to provide custom languages by a markdown language with an easy-to-grasp script. Read section II Literature Review, sub-section II-C, page 2 to understand markdown language.

B. *Objectives*

To achieve the aims mentioned in section (a reference in aims and objectives), sub-section (a reference in arms). In order to meet the aims during the production process of the project, the following objectives is a must. These objectives are as follows:-

- Project planning (section: V Resources and Planning, sub-section: V-B Planning Chart, page 2).
- Create prototypes (Existing libraries to make this possible.Site here).
- Create front-end to work with existing libraries.
- Create back-end to communicate with front-end and generate code based on values the user enters.

IV. PROJECT DESIGN

A. *Outline of Project Process*

B. *Data Collection*

C. *Risks and Limitations*

D. *Ethical Issues*

V. RESOURCES AND PLANNING

A. *Resources Required*

Physical Resources

Human Resources

Other Resources

B. *Planning Chart*

After planning the schedule to 400 hours to fit in the 28th of April 2022 deadline, the schedule finishes on the 07th of April 2022, giving leeway of 21 days.

Schedule of VisualPro: [Microsoft Project Schedule](#) [2].

Evidence of [Microsoft Project Schedule](#) [3].

C. Mindmap - Ideas

This mindmap demonstrates the process and current experience, which helped get the idea for the final project.

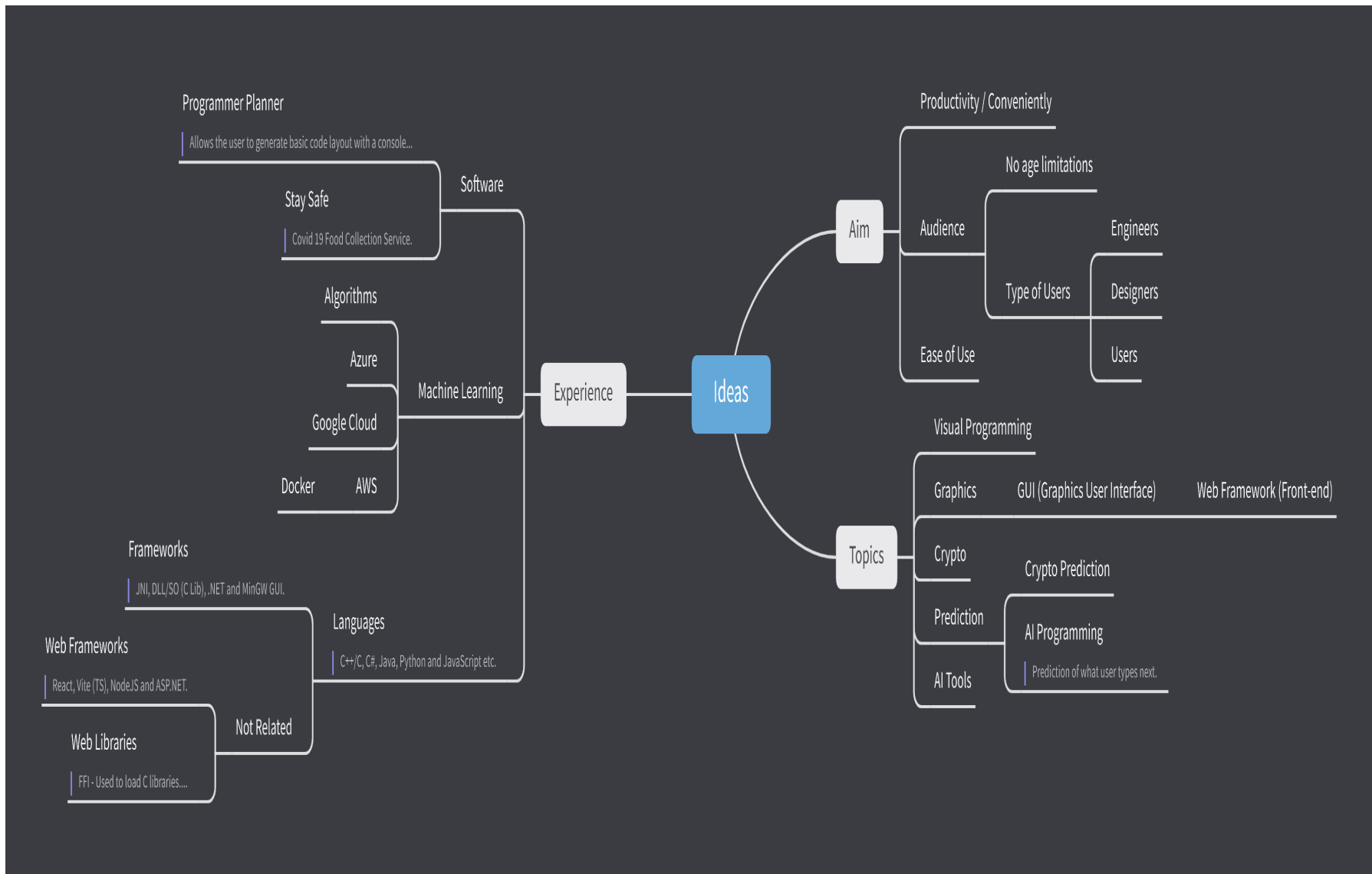


Fig. 1. VisualPro Ideas Mindmap

D. Mindmap - VisualPro

This mindmap displays existing and future libraries or problems within the final project that may prove resourceful within the development of VisualPro.

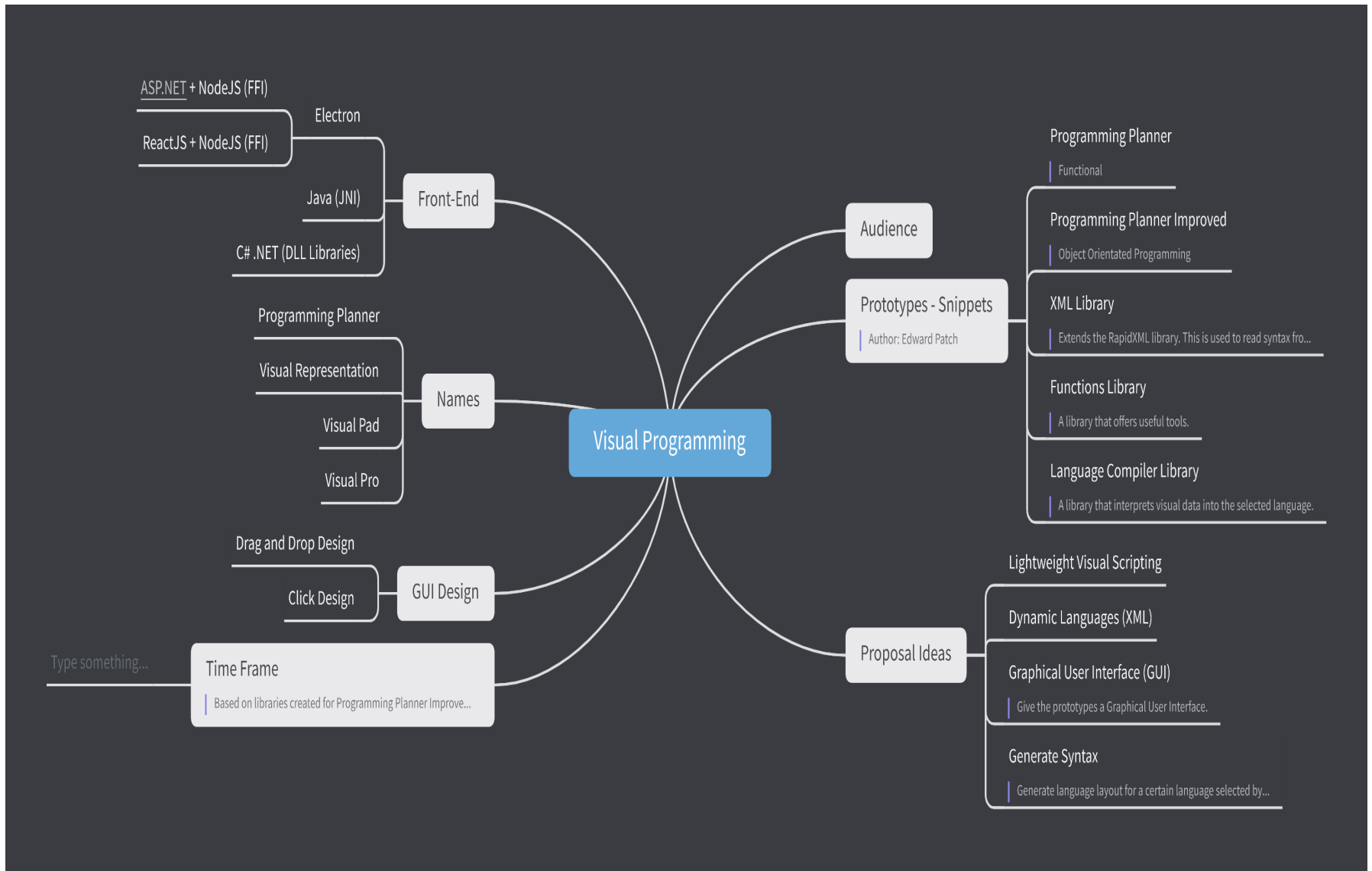


Fig. 2. VisualPro Mindmap

VI. TERMINOLOGY

List of terminologies used in this document:-

- Graphical User Interface (GUI).

VII. CONCLUSION

VIII. REFERENCE LIST

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