<Courses Roadmap>

Vision Document

Version <1.1>

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| <30/10/2021> | <1.0> | First Vision Document | <Ngo Huy Anh> |
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Vision (Small Project)

# Introduction

## Purpose

The purpose of this document is to define the high-level requirements of the web application (Courses Roadmap) in terms of the needs of the end users.

* 1. **Scope**

“Courses Roadmap” is a website that gives readers an overview of the landscape of what they should study in each area and leads them through which courses to take if they are unsure what to learn next. Aside from that, if all of the courses are completed, readers may also provide course evaluations and recommend other courses. The roadmap is limited to the field of information technology.

Almost all existing roadmaps just outline what to learn rather than specific study resources and where to study. This makes learning more difficult for newbies or people without an IT background, **so “Courses Roadmap” will make studying easier for them**

* 1. **Definitions, Acronyms and Abbreviations**

None

* 1. **References**
* [AI Expert Roadmap](https://i.am.ai/roadmap)
* [Codecademy](https://www.codecademy.com/learn)
* [Technological development](https://vista.gov.vn/news/cac-linh-vuc-khoa-hoc-va-cong-nghe/phat-trien-manh-me-khoa-hoc-cong-nghe-tao-but-pha-ve-nang-suat-chat-luong-hieu-qua-va-suc-manh-canh-tranh-cua-nen-kinh-te-3246.html)
* [Demand for programmers](https://doanhnhansaigon.vn/cong-nghe/khat-nhan-luc-it-co-hoi-cho-cac-ban-tre-khoi-nghiep-1107684.html)

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | Almost every roadmap just gives users what topics they should learn, but doesn’t give them how and where they could learn. |
| affects | Students, people without an IT background and users who want to learn one area in the IT field. |
| the impact of which is | A learning process of users may be slow and costly if users don't know what to learn next or register for incorrect courses. |
| a successful solution would be | Courses Roadmap will lead users through which topic they should learn or give a place so that they can review and recommend courses for others. |

## Product Position Statement

|  |  |
| --- | --- |
| For | Students, people without an IT background, users who want to learn one area in the IT field or who are kind to help people. |
| Who | Study, find topics, roadmap and review courses |
| The (Courses Roadmap) | A website that gives readers an overview of the landscape of what they should study in each area and leads them through which courses to take if they are unsure what to learn next, and a place that readers may also provide course evaluations and recommend other courses |
| That | Enable finding a roadmap or review of courses |
| Unlike | Traditional web just give roadmap |
| Our product | Working online easily through website |

# Stakeholder and User Descriptions

This section describes the users of the Courses Roadmap web app. There are 2 types of users of the Courses Roadmap web app: reader, reviewer - who have completed the roadmap. In the future, maybe Courses Roadmap will has organizations - who support topics and courses become comprehensive.

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **eName** | **Description** | **Responsibilities** |
| *Developer team* | Courses Roadmap members | *Ensures that the system will meet the needs of the users, who have to manage the roadmap, learning process & comments of users, including user data.* |
| *Teacher* | Mr. Nguyen Van Vu  Mr. Bui Tan Loc  Mr. Nguyen Le Hoang Dung | *Monitors project progress.* |
| *Reader* | *Reader* | *Ensures that the system will meet the needs of readers.* |
| *Reviewer* | *Reviewer* | *Ensures that the system will meet the needs of reviewers.* |

## User Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Stakeholder** |
| *Reader* | *Select roadmap to learn, register roadmap.* | *Self-represented* |
| *Reviewer* | *Select roadmap, courses to review* | *Self-represented* |

## User Environment

Any web browser and any device that can connect to the internet can be used.

## Alternatives and Competition

There are lots of websites that teach coding, like Codecademy, udemy, freeCodeCamp, TopDev... Our web application, on the other hand, allows users to introduce any course they previously took. We are also attempting to organise the career paths you want to take, like back-end, front-end, and mobile. Users can leave comments and let other viewers know if they think this course is good or not, based on the introduction. Furthermore, after completing our course, individuals can discuss their experiences.

# Product Features

|  |  |  |  |
| --- | --- | --- | --- |
| ***No.*** | ***Feature*** | ***Description*** | ***Priority*** |
| 1 | Light / Dark mode | Change between white and black theme | Low |
| 2 | User’s profile | Display the user’s information, avatar, completed courses, etc. | High |
| 3 | Scroll back to top button | Return to the top of the page. | Low |
| 4 | Share a page on Facebook | Share the course on Facebook. | Medium |
| 5 | Search topic | Using a search bar or menu to find the course or roadmap users want. | High |
| 6 | Communicate with Mod/Admin | Use Facebook Messenger to contact the Mod/Admin. | Medium |
| 7 | Change password | Changing old-password. | High |
| 8 | Forget password | Gmail verification can help you recover a forgotten password. | High |
| 9 | Sign up | Sign up with Gmail account | High |
| 10 | Login/Logout |  | High |
| 11 | Embed Video |  | Low |
| 12 | About us | Information about group | Low |
| 13 | Story | Let everyone know how you feel about the course. | Low |
| 13 | Admin user | Can set roles for other users, edit the courses, … Can do anything mod can do. | High |
| User login | Logged-in users can both write and read comments. The progress bar can be seen. Can share their story. | High |
| Guest | Only can watch information about the course | High |
| Banned user |
| Course Mod | Approve courses | High |
| Story Mod | Approve stories | Low |
| Comment Mod | Approve comments | Medium |

# Non-Functional Requirements

* When searching for a course, the web should offer a result in 1 second on the stable network connection.
* When changing a password, the user must first validate their previous password before entering the new one. To verify a new password, you must type it twice.
* When a user forgets their password, they must input the Gmail address they used to sign up for the account and then verify it in their Gmail.
* Even if the user leaves the website, the user should remain logged in.
* The greatest role is that of an admin, followed by that of a mod, and finally that of a regular user.
* Our website should have the capable for 100-1000 users getting access at the same time.
* Regarding security, our website uses gmail to authenticate your account, if you forget your password or want to create an account, you need gmail to authenticate.
* If you have any questions, you can message the admin through the facebook group that we put on the website
* In the process of making the website, we will find a way to make it easy to update and fix errors
* We use SPA programming style for the website, so it will take a long time to access the website when it first arrives, but in the process of using the website, it will not take time to switch pages, all processes will be done almost immediately.
* We will update the website with new features in the future.
* You can keep your personal information private if you want, our website has the function to make your personal page private.
* We recruit roles like sensor, poster and admin if you want to apply you can contact us via facebook group. We will interview and set the role for you.
* The website will be easy to use, friendly, with easy-to-see colors and you can switch to light-dark mode as you like.
* We will fix possible errors to help users not have problems during use, and if there are errors you can contact us through facebook group.
* Our website supports users to learn programming better, there is no charge, everything is free and you just need to log in to use it.