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| Technological University Dublin |
| Journ.ie |
| *“Memory is the diary we all carry about with us.” – Oscar Wilde* |

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| C20305696 Lovely Fernandez  7-7-2024 |

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# Abstract

This report serves to document the process of ‘*Journ.ie*’ from concept to the final product, highlighting critical aspects of each development phase. It includes a summary of product management, web application design principles, and software quality testing methodologies applied, as well as seamless deployment strategies and the utilisation of various technologies and programming languages. Additionally, a demonstration video showcasing the functionality and features of *Journ.ie* is provided via a YouTube link.

*Please find further information about the web application's code and documentation on GitHub at the following links:*

1. *Code and Development:* <https://github.com/Journ-ie/Application>
2. *Documentation:* <https://github.com/Journ-ie/Documentation>
3. *Project Planning:* <https://github.com/orgs/Journ-ie/projects/1/views/7>

# About Journ.ie

## Product Vision

Journ.ie is a unique web application designed as a journaling platform where individuals can document moments they wish to preserve and treasure—a digital archive for capturing significant milestones and memories. This platform supports the art of personal posting and offers tools for organising life's moments meaningfully.

Unlike traditional social media platforms, Journ.ie prioritises providing a safe environment for individuals to focus on their achievements, growth, and reflections without the pressure of public exposure.

With Journ.ie, users can track their personal growth over time, revisit memories, and reflect on their experiences in a meaningful way. Journ.ie empowers individuals to connect with themselves at a deeper level—supporting users through personal healing, fostering personal growth, and actively pursuing their life goals.

## Focus Group

The primary users are adults between the ages of 20 and 35, who are navigating the early stages of their lives and seeking self-growth and development. They have a strong desire for purpose, self-improvement, and a significant emphasis on traveling.

*“Nearly 3 in 5 young adults (58%) reported that they lacked “meaning or purpose” in their lives in the previous month. Half of young adults reported that their mental health was negatively influenced by “not knowing what to do with my life… Forty-five percent (45%) of young adults reported that a general "sense that things are falling apart” was impairing their mental health.” -* ( On Edge: Understanding and Preventing Young Adults’ Mental Health Challenges, 2023)

# Product Management

## Identity

|  |  |
| --- | --- |
|  | "*Journ.ie*" originates from the concept of journaling one's thoughts throughout their journey. The "ie" is a play on words, referencing Ireland, where the website was developed from.  Additionally, Celtic designs are incorporated to honour the country's rich history and cultural heritage. |

## Palette

To create a calming and serene colour palette for Journ.ie, supporting its mission of inner reflection and journaling, soft pastel shades and earthy tones have been chosen. This palette evokes a sense of calm, serenity, and positivity, enhancing the therapeutic experience of journaling and emotional exploration.

A pink and white background with black text

Description automatically generated

*Figure 01. Colour Palette (Suggested by ChatGPT)*

## Requirements

|  |  |
| --- | --- |
| **Functional** | |
| User Authentication and Authorisation | Enable users to create personalised accounts to securely store and access their journal across devices. |
| Digital Journaling Tools | Create and manage journal entries, incorporating text, photos, videos, and various multimedia elements. |
| Mood Tracking | Add mood or emotional state on journal entries. |
| Timeline and Progress Tracker | Track personal growth and achievements over time using timeline and goal-setting tools. |
| Search and Organisation Tools | Navigate and manage entries efficiently with tags, categories, and filters. |
| Location Tagging | Specify the location of the journal entry or the content within. |
| **Non-Functional** | |
| Usability | * Aim to create a user-friendly interface – UI is a high importance to improve UX. * Accessible to users with different technology skills   + Technical Skills Levels   + Accessibility Types |
| Compatibility | * The website should be dynamic and work on major screen types, with a primary focus on mobile and web screens. |
| Security | * User data should be secured and sensitive data to be encrypted where necessary. |

# Project Management

In my project planning and management approach, I utilise Agile methodologies, conducting bi-weekly Friday reviews and employing SCRUM practices. This strategy ensures continuous improvement, effective task prioritisation, and a steady workflow.

## Milestones

A close-up of a screen

Description automatically generated

*Figure 02. Milestones (Miro)*

|  |  |
| --- | --- |
| Project and Product Planning | 08 July – 15 July |
| Web Application Design | 16 July – 20 July |
| Product Development | 21 July – 03 August |
| Testing | 04 August – 05 August |
| Product Development Review | 06 August – 09 August |
| Testing 2 | 10 August |
| Product Development Final Review | 11 August |
| Deployment | 12 August – 13 August |
| Documentation, Code & Video Submission | 14 August – 18 August |
| Deadline | 31 August |

## Task Distribution

GitHub Issue Boards offer a flexible platform for managing development workflows and task distribution through a visual interface that aligns with agile project management methodologies.

See *Figure 03* for an overview of how I effectively distributed and tracked tasks:

|  |  |
| --- | --- |
| **To Do (Backlog)**  All tasks and stories for the upcoming iteration are added to this column. It acts as the planning area where tasks are sorted by priority. | **In Progress**  Tasks are moved to this column when they are being worked on. This helps keep track of active tasks and ensures focus on the goal of completing the iteration. |
| **Review & Testing** Testing whilst developing is crucial as it catches early errors, reducing the burden during the testing phase. This stage ensures the work meets the desired standards and functions as intended. | **Done** Completed tasks are moved to this column. ‘Done’ provides a clear view of the project’s progress and achievements, helping maintain motivation and momentum. |



*Figure 03. Issue Board (GitHub Project)*

# Web Application Design

## Use Case Diagrams

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A diagram of a system  Description automatically generated  *Figure 04. Use Case 1 Journ.ie System*  *(StarUML)* | | | |  |  | | --- | --- | | **Use Case 1: Using Journ.ie System** | | | **Goal** | The writer can login and journal | | **Preconditions** | Writer needs a verified account | | **Postconditions (Success)** | Writer can journal and log their day | | **Postconditions**  **(Failed)** | Writer is unable to access their account, therefore, unable to access Journ.ie | | **Actors** | Writer – the main user of the website | | **Trigger** | Writer wants to access their journal | | **Description** | Writer logins or register/create an account and journals using Journ.ie features | | | |
| **Main Flow (MF)** | | | | | |
| **Step** | **Action** | | | | **Alternate** |
| 1.1 | System prompts for user access details (username/email, password) | | | |  |
| 1.2 | Writer inputs their user details | | | | EF.1.2 |
| 1.3 | System verifies user details are correct | | | | EF.1.3 |
| 1.4 | System gives access to the user and directs the page to their journal | | | |  |
| 1.5 | Writer accesses their journal and logs their day | | | | End of MF |
| **Exceptions or Error Flows** | | | | | |
| **Exception/Error Flow 1.2:** MF.1.2 Writer does not have an account | | | | | |
| 1.1 | Writer chooses register option and creates an account | | | | MF.1.1 |
| **Exception/Error Flow 1.3:** MF.1.3 Writer input incorrect user details | | | | | |
| 1.1 | System prompts user of the error – *‘Incorrect email/username or password’* | | | |  |
| 1.2 | Writer re-enters their user details | | | | MF.1.3 |
| **Non-Functional Requirement** | | | | **Priority:** High | |
| **Product Security** | | User data should be secured and sensitive data to be encrypted where necessary. | | | |
| **Organisation Security** | | Adhere to GDPR standards on processing data | | | |

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| *Figure 05. Use Case 2 Location Tagging*  *(StarUML)* | | | | |  |  | | --- | --- | | **Use Case 2: Adding a Location Tag to a Log** | | | **Goal** | Location Tag is added to the Journal Log | | **Preconditions** | Location Permissions is enabled | | **Postconditions (Success)** | Writer can add a Location Tag | | **Postconditions**  **(Failed)** | Writer is unable to add a Location Tag | | **Actors** | Writer, Browser | | **Trigger** | Writer adds location to the journal log | | **Description** | Writer adds their location on the journal log | | | | |
| **Main Flow (MF)** | | | | | | | |
| **Step** | **Action** | | | | | | **Alternate** |
| 2.1 | Writer adds a log on the journal and adds their location tag | | | | | |  |
| 2.2 | System verifies if Location Permissions are allowed | | | | | | EF.2.2 |
| 2.3 | System verifies the address is valid | | | | | | EF.2.3 |
| 2.4 | System adds the location tag on the log | | | | | | End of MF |
| **Exceptions or Error Flows** | | | | | | | |
| **Exception/Error Flow 2.2:** MF.2.2 Location Permissions are disabled | | | | | | | |
| 2.1 | System prompts user to enable Location Permissions | | | | | | AL.2.1 |
| 2.2 | Writer enables Location Permissions | | | | | | MF.2.2 |
| **Exception/Error Flow 2.3:** MF.2.3 Location is invalid | | | | | | | |
| 2.1 | System prompts user of the error – *‘Location is invalid’* | | | | | |  |
| 2.2 | Writer updates the address or adds a different address | | | | | | MF.2.3 |
| **Alternative Flows** | | | | | | | |
| **Alternative Flow 2.1:** EF.2.2.1 User does not enable Location Permission | | | | | | | |
| 2.1 | | System prompts user of the error – ‘*Unable to add location’* and returns to log draft | | | | End of MF | |
| **Non-Functional Requirement** | | | | | **Priority:** High | | |
| **Product Reliability** | | | Location Tag is accurate | | | | |
| **Product Safety** | | | Location Permissions enabled where only necessary | | | | |

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| *Figure 06. Use Case 3 Journal System*  *(StarUML)* | | | |  |  | | --- | --- | | **Use Case 3:** Journal System | | | **Goal** | Writer adds a log to their journal | | **Preconditions** | Writer has a verified account | | **Postconditions (Success)** | Log is added into the Journal/Journal database (DB) | | **Postconditions**  **(Failed)** | Log is not added into the Journal/Journal DB | | **Actors** | Writer, Journal DB | | **Trigger** | Writer saves a Log | | **Description** | Writer drafts a log into the journal and saves it into the DB by submitting it through the system | | | |
| **Main Flow (MF)** | | | | | |
| **Step** | **Action** | | | | **Alternate** |
| 3.1 | *Use Case 1 runs here…* | | | |  |
| 3.2 | Writer adds a log into the journal and adds location tag (*Use Case 2 runs here…)* | | | |  |
| 3.3 | Writer saves log | | | | EF.3.3 |
| 3.4 | System checks all mandatory fields and requirements have been completed | | | | EF.3.4 |
| 3.5 | System adds the log into the Journal database | | | |  |
| 3.6 | System closes log and from the database display into journal page | | | | End of MF |
| **Exceptions or Error Flows** | | | | | |
| **Exception/Error Flow 3.3:** MF.3.3 Writer does not save the log | | | | | |
| 3.1 | System disregards user log details and returns to journal page | | | | End of MF |
| **Exception/Error Flow 3.4:** MF.3.4 Mandatory fields are not filled | | | | | |
| 3.1 | System prompts user the fields that are not filled – ‘*Input X’ or underline red.* | | | |  |
| 3.2 | Writer completes the empty fields | | | | MF.3.3 |
| **Non-Functional Requirement** | | | | **Priority:** High | |
| **Product Performance** | | Notification to update user when the log is saved and uploaded | | | |
| **Product Security** | | Logs can only be added but should not be able to access other functions of the database | | | |

## Class Analysis

|  |  |
| --- | --- |
| A diagram of a diagram  Description automatically generated | *Figure 07. Class Analysis Location Tag.*  *(StarUML)* |
|  | *Figure 08. Class Analysis Journal*  *(StarUML)* |

## A screen shot of a diagram Description automatically generatedClass and Sequence Diagram

*Figure 09. Informal Sequence Diagram UC1-2 (StarUML)*

A screen shot of a diagram

Description automatically generatedA screen shot of a diagram

Description automatically generated *Figure 10. CLASS DIAGRAM*

*Figure 10. Proper DIAGRAM*

## Database Diagram (ERD)

|  |  |
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## Sitemap

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| --- | --- |
| A screen shot of a diagram  Description automatically generated | Lorem Ipsum   * Sitemap (flowmapp, structure of web – relations of pages, purpose/content, 10 network, etc.) (1) |

## GUI Prototype

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| --- | --- |
| A screen shot of a diagram  Description automatically generated | Lorem Ipsum   * GUI Prototype (figma, visual focus on UX UI improvements) 10   + Logo Motto Palette (2) and name |

# Software Quality Testing 11-12

* Testing Document w Scenarios
  + UI
  + Features
* Non-Technical, Technical & Young, Old
* Interviews/Questionnaire

Results? Or intveier and questionnaire form?

# Deployment 13

* Read.me @ Github Application
* But provide it here too (summarised)

# Programming Technologies and Languages 14

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Project/Product Management | GitHub Logo and symbol, meaning, history, PNG, brand |  |  |  |
| Front-End | Html Logo Vector Art, Icons, and Graphics for Free Download | Free High-Quality CSS Logo for Creative Design | JavaScript PNG, Transparent JS Logo Free Download - Free Transparent PNG  Logos | React JS |
| Back-End |  | Firebase Brand Guidelines |  |  |
| Web Development |  |  | UML Tools - Javatpoint |  |
| Deployment | Firebase Hosting - Javatpoint |  |  |  |

# Demonstration

|  |
| --- |
| < Placeholder: Visual Map of what will be demonstrated > |

*Please find the demonstration video on YouTube via the following link:*

< <http://www.youtube.com/sample-video> >

# References

* Education, H. G. (2023). *On Edge: Understanding and Preventing Young Adults’ Mental Health Challenges*. Retrieved from Making Caring Common Project: https://mcc.gse.harvard.edu/reports/on-edge