2020-2021

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# MSc in Computing - Team Project

# Interim Report

TU059/TU060

Year 2

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**HALE**  
**Your Healthcare Assistant**

For a better quality of life

# USER Senario

## Target Users

The health application mainly focuses on the users aged between 18 and 65. This user group was choose due to various technical and legal reasons. Firstly, 18 is the legal age after which a person is considered to be an adult, before that a guardian’s permission is needed for them to handle their documents legally. Secondly, a user if below the age of 16 may not be familiar with the technicality of medicine. Thirdly, a user above the age of 65 may not to technically sound to use the application. Fourthly, users may prefer the familiar ways to deal with their problems.

## Personas

For the decided user group a few persons have been created which will help in visualizing the problems the users face in day to day life.

Meet ‘Katie Patel’ she is 21 years old. Katie is an international student who recently moved from India to Ireland for perusing her dream of becoming a cyber-crime lawyer.

Meet ‘Lyra Foster’ she is 34 year old. Lyra is a high school teacher who is married with two kids, she lives a simple and fulfilling life.

Meet ‘Zoro Uzumaki’ he is 53 years old. Zoro is a tech product director who is married with kids, he believes in keeping is body healthy and fit.

## Problems getting solved

Katie is new to Ireland, she does not know anyone here, travelling internationally Katie did not carry her medical documents with her. In the time which she need to find a place and settle down she has already forgotten the over the counter medicines she has taken to fight of different symptoms such as headache, body pain and nausea. For Katie the biggest challenge is that she does not carry medically certified documents like prescription and test reports with her for any previous illness tough she still somewhat remember the disease that she had, she also does not know any GP’s near her area whom she can talk to if needed.

Lyra is a mother of two kids, over the years Lyra has more than once lost an important medical document related to one of her kids and confused the symptoms of the two kids. Her biggest challenge is to manage the family’s document in one place, she also believes that too many medicines have a bad effect on children and make their immune system week so she does all what she can to avoid taking medicines frequently. Lyra wants to find natural cure for small problems such as headache, constipation, vomiting etc. which may not necessary need her to call her GP.

Zoro is a very serious person whose first response to any problem is to do internet research on the problem and its possible solution. He faces the problem of finding a reliable source of information because more than 70 percent of the information on internet these days is speculation. Zoro is a very health cautions person he maintains a diary where he writes all his symptoms and the medicines he has taken for them but he does not have it on the go, he is looking for enhancing his quality of life.

# Technical Problems

## Our System Exist-

1. No such application like ours which does every think
2. Need of the hour

### Look at intro from proposal doc.

## Core Technical Problem

### Look at opportunity from proposal doc.

What is the functional req?

Non- functional req

1. Component Diagrams
2. Use case
3. ER diagrams

## Existing Products

# Technical Solution

## Minimum Configuration

## Features

Silent Features

Main Features

## System Diagram

Flow of app—flow chart of business logic

DFD

Prototypes, mock-ups

## Data

Dataset to database tables, security, storage, collection of data

# Evaluation

## Success

Success for us can be defined as the following

1. Adhering to timelines
2. Delivering a fully functioning project with all the features
3. A fulfilling and harmonic collaboration between all the actors in the group
4. A good final demo/ presentation and report.

## Testing Criteria

1. User acceptance – Ease of access, profile creation, Edit profile
2. Analyzing result - Success rate versus Error rate metrics
3. Across multiple users
4. Across countries
5. Surveys
6. Feedback
7. Exploring your technology choices, and evaluating them – Literature
8. Implications of GDPR

# Conclusion

## Project Management

1. Agile – scrums and sprints, rotating scrum maters, backlog
2. Zenhub – Reports, boards, charts
3. GiHub – Repo management and collaboration
4. Virtual environment – slack, zoom, google calendar, drive

## Challenges

1. GPU’s clusters and running time
2. Scalability

## Limitations

1. Limited space
2. 25 diseases

## Timeline

6 weeks of development left

# References

# Appindix a-

**A.1- Katie Patel**

A drawing of a face

Description automatically generated

**Age-**

21

**Gender-**

Female

**Highest Level of Education –**

Associate degree (e.g. AA, AS)

**Bio-**

Kate is studying law at TUD, she’s a vegan and maintains her health with her personal training coach 3 days a week. With her free time, she enjoys going to underground jazz clubs and nights out with her friends in the city.

**Work-**

College Student

**Family-**

Single

**Attitude to technology -**

* Familiar with basic mobile applications
* Plays lot of games on computer

**Goals-**

* Become a Professional cyber-crime lawyer
* Travel all countries in the world.

**Life Motto-**

Katie wants to understand and enjoy the different cultures around the world.

**Strengths-**

Creative, Analytical

**A.2- Lyra Foster**

![A drawing of a cartoon character

Description automatically generated]()

**Age-**

34

**Gender-**

Female

**Highest Level of Education –**

Bachelor’s degree

**Bio-**

Lyra is a high school teacher. She prefers to stay at home on the weekends and she spends a good portion of her free time helping her children thrive and grow. Her hobbies include making ceramics, cooking, and volunteering. She quotes, "My time is valuable and I do not want to waste it on something that I do not want to do like submitting questions to health experts that go left unanswered."

**Work-**

High School Teacher

**Family-**

Married with kids.

**Attitude to technology -**

* To get consultation and manage medical documents of the kids at one place
* Complete PhD

**Goals-**

* She is pretty familiar with basic mobile and web applications.
* She use social networking sites a lot.

**Life Motto-**

Lyra wishes to be the best version of herself.

**Strengths-**

Practical, Organized and creative

**A.3- Zoro Uzumaki**

![A drawing of a cartoon character

Description automatically generated]()

**Age-**

53

**Gender-**

Male

**Highest Level of Education –**

Master’s degree

**Bio-**

Zoro is a Product Director at a corporate investment and incubation firm. When not working around the clock, he enjoys going to CrossFit 4-5 days week, cycling, and training for triathlons on the weekends.

**Work-**

Tech Product Director

**Family-**

Married with kids.

**Attitude to technology -**

* Well versed with IT terminologies
* Uses Mobile extensively for calling
* Is familiar with technologies like GitHub, ZenHub, and Agile.

**Goals-**

* Feels bad wasting and burdening peoples time if they are unable to provide service needed.
* Inspired by tennis pro Roger Federer.

**Life Motto-**

Zoro wishes preventive body care with no inuries

**Strengths-**

Analytical, Passive, Punctual