

*SYNOPTIC PROJECT:
ENGINEERING FOR
PEOPLE DESIGN
CHALLENGE 2021*

By Jack Appleyard, Usama Imtiaz,
Yan Pfister, Kathapet Nawongs,
Nathan Davis



INTRODUCTION



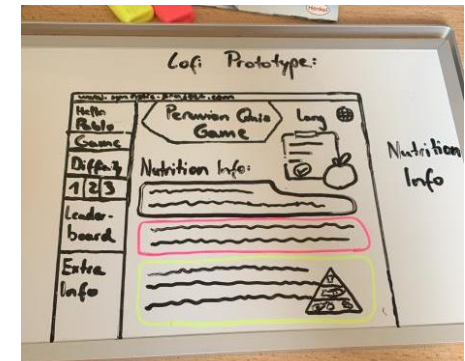
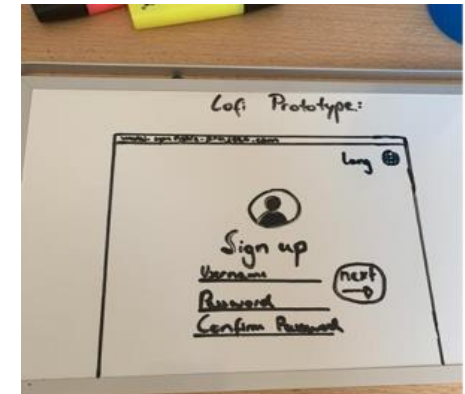
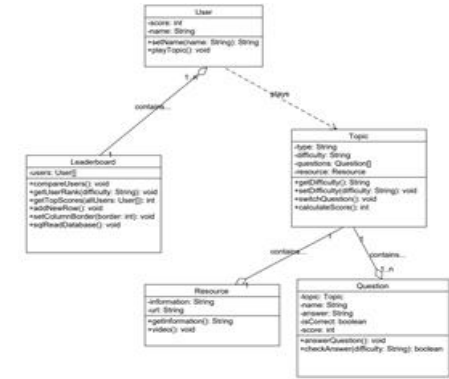
EWB DIGITAL CHALLENGE



- We were tasked with designing a software prototype to help solve a local problem or aid the local community – what was our solution ?
 - We decided on creating an educational Nutrition/Maths game website
 - We identified a reoccurring key factor with many of the issues facing Lobitos and Piedritas
 - Lack of knoweledge surrounding these vital issues such as fishing regulations/nutrition play a key role in creating a more sustainable future for both the locals and tourists

DESIGN STAGE

- Discussed each team members strengths and weaknesses , ensuring optimal and efficient work flow of each member
- Initially, noted down all of the members ideas to the issues, and then all agreed on the best solution
- Our design stage, involved creating lo-fi prototype designs, UML diagrams and MoSCoW Requirements
- Used Trello for our full documentation of our project



PROTOTYPE IMPLEMENTATION

- During the implementation stage of our project, we worked well as a team to allocate each members tasks for the day
- Using our UML diagrams and lo-fi designs from the design stage, we adapted elements of our website
- We utilized the skills we learnt from our Software Engineering module and many others to help us solve and do well in this project

SOFTWARE TESTING

- Used Vue testing library
- is a very light-weight solution for testing Vue components
- It provides light utility functions on top of in a way that encourages better testing practices
- Very useful in our testing stage of our project



KEY FACTORS TO CONSIDER

- How does your software help these people?
 - By creating an educational website, as education is such a vital role for a sustainable future
- Is it sustainable? Can it be maintained by locals?
 - Yes, as we would maintain the website and offer helpful updates and fix bugs
- Are there infrastructure problems (internet, intermittent power)?
 - There are potential issues here, as Lobitos and Piedritas don't have great internet facilities, but could improve in the future hopefully
- Are the equipment requirements unreasonable?
 - Only requires a device that can access the internet





THANK YOU FOR
LISTENING !

ANY QUESTIONS ?