

1703973Kordian

by Kordian Majewski

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Induction

The entire plan with the project and the report is to give the close look and overview on the final point how the prototype will start working and how it will be effective.

Business description

Our trading name is EnAble basically our team formed of 4 come up with that name to help people who are on wheel chairs. The name is making people who have disabilities to be flexible and enable to do like most people are doing. The classification is making our group unique and is legal also the name is not used anywhere on the world so our team is able to use that and the name is taken already by us. Quick short description what is our business doing. Group of 4 people is trying to design the ramp that will help people on wheel chairs get on to buildings more easily and flexible. The group of our people are networks qualified and will be determinate

Mission Statements

The mission statement is to hit the main goal of people who have trouble to get into the buildings, busses, trains. At the moment people well most people don't have ability to travel with public transport because it is mostly not available. That is costing them to spend more money on the special designed vehicle to transport them from one place to another. Not mentioning that they don't feel comfortable with that, because they cannot travel in the public transport like most people do or enter to buildings. The people who we are aiming at are valuable like most people who travel free on public transport. The design will help to companies at the moment in UK first group busses are designed to go down and release the air pressure on the tiers also if there is a big gap between bus and the road where is person on the wheel chair the bus driver need to get out and help that person. Our goal is to make people flexible. So if the ramp will detect there is a following distance needed it will go down automatically so bus driver can stay in the bus and the wheel chair person will enter the bus without any problem.

New Product development

The new production idea came up with option to expand so new product can be made. That is allowing the product to expand and be modified in many ways for example the prototype is only will be using the red sensor however in the future it will be using wireless network to connect the device near by the doors or example if the person on the wheel chair will be close to the building the device will start reading the meter distance and will open the door automatically.

Product features & Requirements

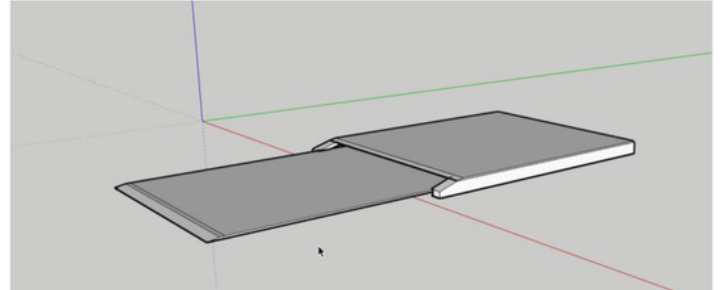
The product specs and requirements are not difference however will need new features like sensors wireless connector and own IP connection to wi-fi. At the moment every building in Europe is using the wi-fi signal for public however to make it safe. Business and the government will need to involve in this criteria to make in each area special connection to enable that sensor to connect only to wheelchair person. That will not affect. Also because people will use that device as a toy it will be not able to purchase straight away. There will be needed authorization from the doctors or government by the letter. With the correct paper work to do to get that type of device.

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Requirements of the feature it will be a device so it will be a box red laser connector and wireless chip that will allow connection between the devices that the signal will be travelled.

Differentiation: State how the product is different to others on the market i.e. it's USP.

The entire point of view many companies are build that way that they don't have connection between them. For example train stations and bus station and government buildings. They are designed in the way for people who are not using wheel chairs that is making people wheelchair helpless. Without the knowledge for them people are suffering because they cant pay a bill or get information about something not many people can use internet or apps also don't have phones to call so they rather go to the building and find out the information they are needed. For bus drivers it will be helpful because they will not need to get out from the bus and it will not affect the travel time. Same with the train station the same principle follows.



The following image above is showing the entire plan of the ramp. How it will work and how it will affect the wheelchair person. That is only amount of time when the prototype will be designed

1. The Market and Competitors

The products are already on the market however on older versions of it and not wireless also not advance like that. That will make the ramps more useless to use. Our ramps that have advanced technology design that will help people to achieve following destination and access to many points, also there is space for our product that will be delivered by the companies and supporters. There the technology is using is more advance and more tek.

The competitors are FirstGroup/ Ramps Flexible / Train Wales are the most competitors here because they are using ramps however they are outdated and cant be used in most locations. There is no effect on the environment because it will not affect is not gas consuming only electricity. Also device can be charged or there could be placed batteries that will allow the device to run. We had a lot of feedback from users and they are happy about it. The feedback will be shown in the final report of the project because there are still feedback going on in the system.

What is your target market / customers?

The main target will be Red Cross & Disabled foundations that are helping people who have disabilities. Then if it will be affective company will target government for support and donation towards the projects.

As you see there is a logo of the company that is producing the product.

There will be a financial problem because the prototype will be designed from wood and it will be not affective. However if the project will get support from companies the founding then the money will be spend to buy proper materials. The financial start for the prototype will be one million pounds that will allow to achieve couple prototypes with different options in the final stage of the project. Company will produce more of ramps that will allow sale some of them to companies how the project is going on. The financial manager will be entire team to see who need more materials and what department need support.



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Management & Operations

The company needs 5 man squad. The engineer / Programmer / Network Designer / Advertiser and the manager who will plan entire work. The good point to run the business if entire team is involved to this because everybody came up with some ideas to make that project very effective in the future of the development.

There will be needed permission from government to proceed entire project because it will be for people who have problems with access and there will be needed a lot of protection. If something would happen to a person because of the ramp company will be affected with the fee of conduct. Also there will be Copyright reserved for the company so nobody could use the same model or design to resell that type of project. The project is required the IT skills to make that project work. Mainly because of the programming / engineering and network designing for the wireless network to connect to the device between sensors and the wireless chip. The TEAM produced a lot of employability skills because we need to manage our time produce the timesheet and reports how the work were going along entire time.

Below there will be stated how the work went and what person did what in entire project.

Team progress sheet

Team Name: enAble

Team Goals: Disabled accessibility

Team Member Names & Roles:

Ceri Puddle: Team leader, Research and D&P

Declan Chambers: Planning, Research and D&P

Alex Griffiths: Budgeting, Research and D&P

Kordian Majewski: Marketing, Research and D&P

[Week 2 progress report for team enabled:](#)

Date: 08/11/2018

In-Attendance: Ceri, Declan,Alex and Kordian. **Apologies:** n/a **Absent:** n/a

> Team discussion:

Notes: Brain storming ideas for the group project, Multiple ideas were produced further refining of the final ideas are needed. We came up with the team name enAble. Discussion for when next week's meeting is going to take place. We decided the team roles after taking online tests to see who would be best suited to each individual role. Started the creation of the team progress sheets.

Resources used:

University meeting room FW105, Whiteboards, Onedrive colab software

[Week 3 progress report for team enabled:](#)

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Date: 15/11/2018

In-Attendance: Ceri, Declan, Alex and Kordian. **Apologies:** n/a **Absent:** n/a

> Team discussion:

Notes: We are still discussing ideas, we are trying to pick an idea which would best suit our skill set, and network engineers. We also came up with our mission statement this week and also created the original design for the Awesome! Logo.

Resources used:

University meeting room FW106, Whiteboards, personal computers, Onedrive colab software

[Week 4 progress report for team enabled:](#)

Date: 15/11/2018

In-Attendance: Ceri, Declan and Alex . **Apologies:** n/a **Absent:** Kordian

> Team discussion:

Notes: We have decided our final idea is going to be the Connected. Access. Ramp. We start doing some initial designs of the C.A.R and decide what materials and future it should have.

Resources used:

University meeting room (Forgot to note down room), Whiteboards, personal computers, Onedrive colab software

[Week 5 progress report for team enabled:](#)

Date: 29/11/2018

In-Attendance: Ceri, Declan, Alex and Kordian. **Apologies:** n/a **Absent:** n/a

> Team discussion:

Notes: We have started the creation of the PowerPoint presentation and created a OneNote that dictates which slide is assigned to each person. We also decided to go with prezi online collaboration software to allow us to create a more visually stimulating presentation.

Resources used:

University meeting room FW101, Prezi , Onedrive colab software

[Week 6 progress report for team enabled:](#)

Date: 3/12/2018

In-Attendance: Ceri, Declan, Alex. **Apologies:** n/a **Absent:** Kordian

> Team discussion:

Notes: We are working on finishing the PP and starting the practice ready for the submission deadline of the 6th of December. Practicing the flow of the PP and working on each others ques. Finalizing the PP.

Resources used:

University meeting room FW105, Prezi , Onedrive colab software

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Week 6 progress report for team enabled:

Date: 5/12/2018

In-Attendance: Ceri, Declan, Alex. **Apologies:** n/a **Absent:** Kordian

> Team discussion:

Notes: We are continuing to work on the Prezi Finalizing the citations and formatting some of the little errors.

Resources used:

University meeting room FW105, Prezi , Onedrive colab software

Week 7 progress report for team enabled:

Date: 31/01/2019

In-Attendance: Ceri, Alex. **Apologies:** n/a **Absent:** Kordian, Declan

> Team discussion:

Notes: After Christmas this is the first meeting back, the course tutor assessed our current progress and suggested increasing our marketing strategies. So, we have decided to wait until next week in order to talk this over with the rest of the group. We have kept in mind that we need to create a better more professional logo, We potentially want to outsource this.

Resources used:

University Teaching room 108

Week 8 Progress report for team enabled:

Date:06/02/2019

Attendance: Ceri , Alex, Kordian **Apologies:** Declan **Absent:** n/a

> Team discussion:

This week we discussed what roles we should have for the up coming brand design challenge. The event will be held next week, and we should have something to show by then.

Roles:

Ceri: Research and create social media management.

Declan: Create social media accounts and email marketing system.

Alex: Creating website

Kordian: Creating the art, Logo, Gif, Video and banner.

These roles were discussed and each member choose the role best suited to their skills.

Next week is the challenge.

Week 9 Progress report for team enabled:

Date:13/02/2019

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Attendance: Alex, Kordian, Declan **Apologies:** Ceri **Absent:** n/a

> Team discussion:

This is the week of the brand design challenge, A member of the tech hub community came to the university to have a look at all of our idea and to give us useful feedback on our initial designs and ideas. From the feedback that we received we have a good idea, but it could be better represented, So for further work there are certain aspects of the brand that we need to improve upon.

The logo and banner art need to be redone to improve its aesthetic appeal, same with the website.

One piece of feedback we go was the design of mixing a wheelchair and a power button for our logo.

Week 10 Progress report for team enabled:

Date:20/02/2019

Attendance: Ceri, Alex **Apologies:** Kordian, Declan **Absent:** n/a

> Team discussion:

No meeting was held on this date. Due to personal issues we had to delay a meeting till next week.

Week 11 Progress report for team enabled:

Date:28/02/2019

Attendance: Ceri, Alex **Apologies:** Kordian, Declan **Absent:** n/a

> Team discussion:

No meeting was held on this date. We did all of a loose discussing on how we are going to make a physical prototype for the project where we wasn't sure on what we are going to do due to our lack of expertise in engineering. We have kind of hit a brick wall because we are not sure what to do, We are going to have to discuss this with our tutor next week.

Week 12 Progress report for team enabled:

Date:07/03/2019

Attendance: Ceri, Alex **Apologies:** Kordian, Declan **Absent:** n/a

> Team discussion:

We had a discussion with james about making a physical prototype and he has offered us some help and support if we need it, originally we wasn't going to create a physical prototype but its seems that we need to at least some something for the presentation that will be held at techhub Swansea. After talking it over with Declan on the day following that, me and Declan are going to try and source some materials for the project such as wood and tools. We are also going to need a nodemcu to control the C.A.R(Connected, Access, Ramp).

Stuff we are going to need for the prototype:

- Wood

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- Winch
- Tools
- Pistons
- NodeMCU
- 12v Battery
- Jumper cables
- And a lot of trial and error.

Week 13 Progress report for team enabled:

Date:14/03/2019

Attendance: Ceri, Declan **Apologies:** Kordian, Alex **Absent:** n/a

> Team discussion:

Work on the prototype has started, Using some materials that were sourced from BnQ we have decided to make a 75% scale prototype just for a proof of concept.

We are currently building the rails for the ramp to slide in and out

The main material of the prototype is going to be MDF 9mm which is what the whole project is going to be based on. We have selected a couple of roles for the prototype. Ceri and Declan is going to be handling making the hardware of the prototype i.e the physical ramp, motor, mechanisms.

Alex and Kordian are going to be doing the software side of the prototype i.e using an Arduino to control the motor.

Week 14 Progress report for team enabled:

Date:14/03/2019

Attendance: Ceri, Declan **Apologies:** Kordian, Alex **Absent:** n/a

> Team discussion:

FINAL GRADE

GENERAL COMMENTS

Instructor

40/100

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GRADING FORM: UWTSD GRADING FORM

KORDIAN MAJEWSKI

40

1. RESEARCH LITERATURE

Extent of research and/or own reading, selection of credible sources, application of appropriate referencing conventions.

no referencing or reference list.



8

2. KNOWLEDGE AND UNDERSTANDING

Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.



not research informed report. there is a lot of gaps in the knowledge.

10

3. ANALYSIS

Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence.



Product reasoning and description

6

4. PRACTICAL APPLICATION

Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.



not enough evidence of practical work.

8

5. PROFESSIONAL PRACTICE

Attributes in professional practice: individual and collaborative working;



formatting needs improvement word count can be improved

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