

Project Proposal

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1. Title: Shop and Save – Supermarket price watch website

2. Background: Today there are many social media websites out there and there are also many shopping websites out there but there are few that combine them both. This project will attempt to combine both social media and shopping. This project will give users the ability to communicate with their local community members and help each other find the best deals in their local supermarkets. Websites such as Facebook and Twitter are used by communities for services such as this but they are not as efficient as they are not designed specifically for this.

3. Goal: The main goal of this project is to create a website the benefits local communities. I plan on creating a fully functioning website that will give the user the ability to enter in their current location and items they are looking for. The website should then be able to show the user the cheapest place to buy their items locally. The website should also give users the ability to update prices of items.

4. Main research questions:

- **Is there a need for a website like this in local communities?**

I will have to see if there is a demand for a website in local areas. If there is not, the project will not be successful.

- **Will the website be used for what it is intended for?**

Will the website be used solely used for communication between local community members about supermarket prices or will it be have other purposes.

- **Will it be possible to implement on a small budget?**

It could be very expensive to get the website online if we are unable to find a cheap hosting company to host the website.

- **How difficult will the web site be to create?**

This website is quite advanced and I will have to do a lot a research into the different aspects of web applications to see if I am capable of creating this website

5. Justification/Benefits: This project will have many great benefit s. It will help people who are in financial difficulty to save a bit of money on their weekly shopping. It will help whole communities to save money by coming together and sharing the best deals in their local supermarkets. Not only will it have positive financial impacts for people in their local communities but it will help bring communities together. In order for communities to get the most out of this website, they will have to work together and update prices from their local supermarkets. It will also create more competition between supermarkets when they find out about this website. They will be more inclined to lower their prices when they find out that people are using this site to compare supermarkets.

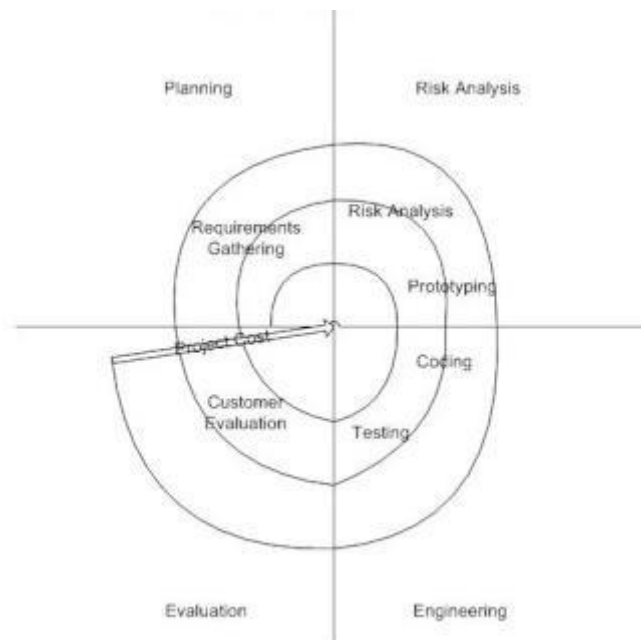
6. Feasibility: After conducting some research on the different aspects of web applications, I believe this project is feasible. I will need to have a good understanding of HTML, CSS, jQuery, Ajax, and Json or xml. I believe it can be completed within the time constraints mentioned in the work breakdown structure. I believe it can be created with little to no money and can be distributed with a small budget.

7. Proposed Methodologies: I will be taking an adaptive approach to this project as it is more flexible because it assumes the project cannot be completely planned out in advance. The Software Development Life Cycle model I think is best suited for this project is the Spiral model. I think it is the best SDLC for this project as it involves a lot of testing which will help me to end up with a better final product.

The spiral model is similar to the waterfall model but it is an upgraded version. The spiral model consists of four phases. They are Planning, Risk Analysis, Engineering and Evaluation. A software project will go through these phases in iteration. This approach assumes that no one gets it right the first time, each iteration refines the previous result.

- Planning Phase: In this phase requirements and objectives are gathered
- Risk Analysis Phase: In this phase risks are identified and are analysed. Alternative solutions are also evaluated.
- Engineering Phase: In this phase the software is developed and testing is carried out.
- Evaluation Phase: In this phase the user is able to evaluate the project output so far before it takes its next spiral.

The main advantage of the spiral model is that it reduces the chances of project failure. This is achieved through extensive risk analysis. By carrying out risk analysis it can help avoid risks which could cause the project to fail.



8. Project Plan

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|----|------------------------------------|
| 1 | Project scoping and planning |
| 2 | Project proposal |
| 3 | Research on social media |
| 4 | Research shopping websites |
| 5 | Risk Analysis |
| 6 | Cost Assessment |
| 7 | Develop website |
| 8 | Start testing |
| 9 | Validation and Verification |
| 10 | Document results |
| 11 | Draw Conclusions |
| 12 | Final website |
| 13 | Document tests |
| 14 | Conclusions |
| 15 | Present documentation |
| 16 | Demonstration |
| 17 | Website release and implementation |

Table 1: Work breakdown structure

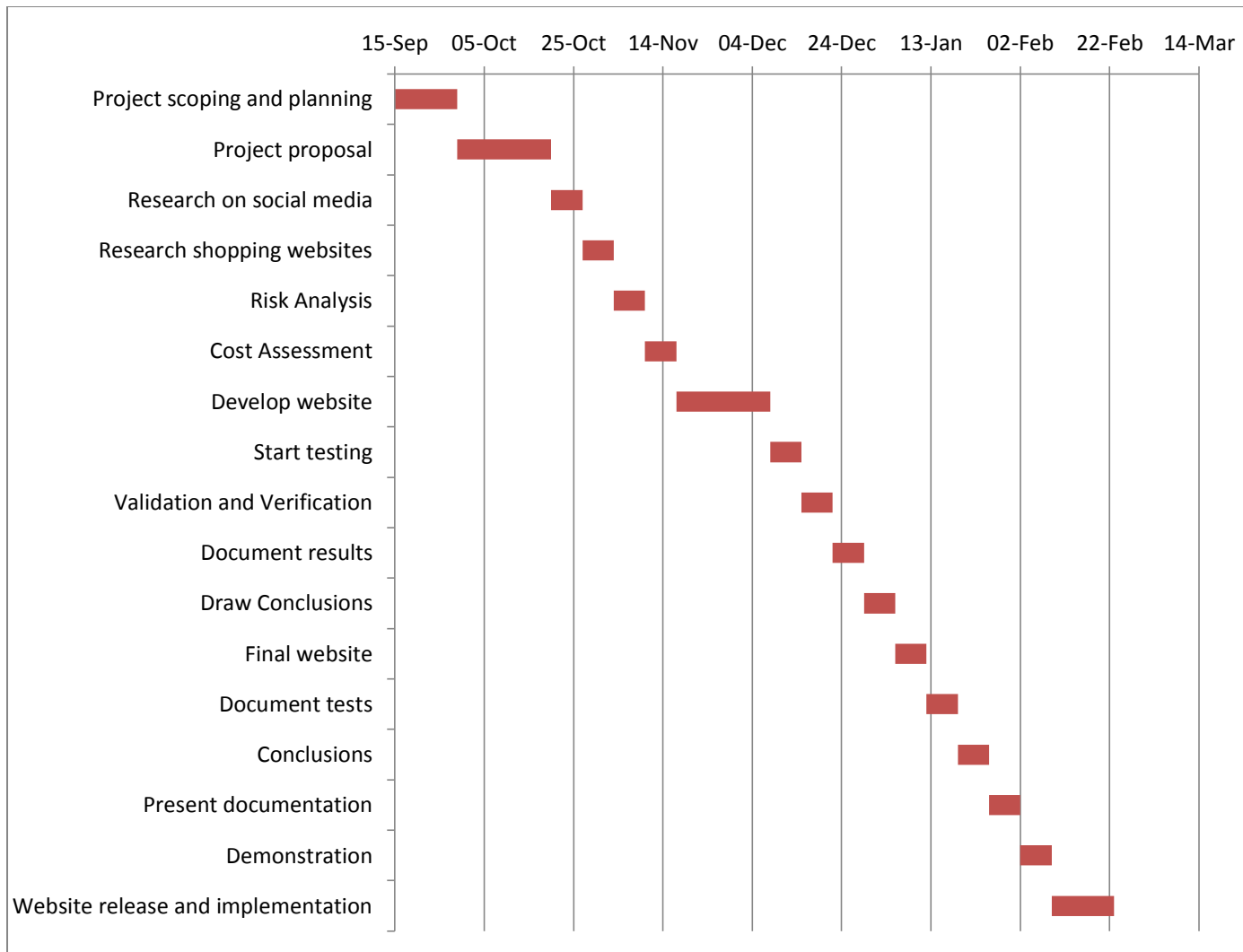


Figure 1: Gantt chart

9. Expected Results:

The main outcomes of this project will be to create a website that helps users to save money on their shopping and bring local communities together. There are many social media websites and shopping websites out there but this project will attempt to combine them and narrow in on the shopping side of social media.

10. Conclusion:

I plan on carrying out further research into existing social media website such as Facebook and Twitter. I also plan on researching existing shopping websites such as Tesco.ie and Argos.ie.

Based on the information shown in this project proposal it has been agreed that this project is feasible. This project is now ready to be started. The next step to take is to research available sources in depth.

11. References

1. <http://istqbexamcertification.com/what-is-spiral-model-advantages-disadvantages-and-when-to-use-it/>