

# The Fire Breathing Rubber Duckies

Group design & development project



Written by:

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//the way I understand this is we are writing up a formal website proposal to ourselves? We have to write the document attempting to convince a “client” (ourselves) to give us the contract to design/implement this website.

## Introduction:

We are a team of Computer Science students from the University of Pretoria, we have experience in all aspects of software design with additional experience in multimedia. We can therefore provide a product that functions well, and provides a good experience for the userbase of our products. We can provide comprehensive software solutions that will satisfy both you and the end-users of the product.

## Description:

### Problems:

The problems facing a modern company with regards to web development is that their userbase includes people who use a variety of methods to access the same resource, be that smartphones, tablets, laptops or desktop computers, to design a website that caters for all of these different users can be challenging, but not impossible (Victor, 2012). Finding a good hosting service for the final web product can also be a challenge, as there are many platforms available with many different options and features.

### Solutions:

With our team's background in development and design, we will be able to provide a website accessible by all manner of devices, the product will be fast efficient and well designed. Also we have dealt with hosting services in the past and will be able to select an appropriate hosting platform that will satisfy the requirements of the product.

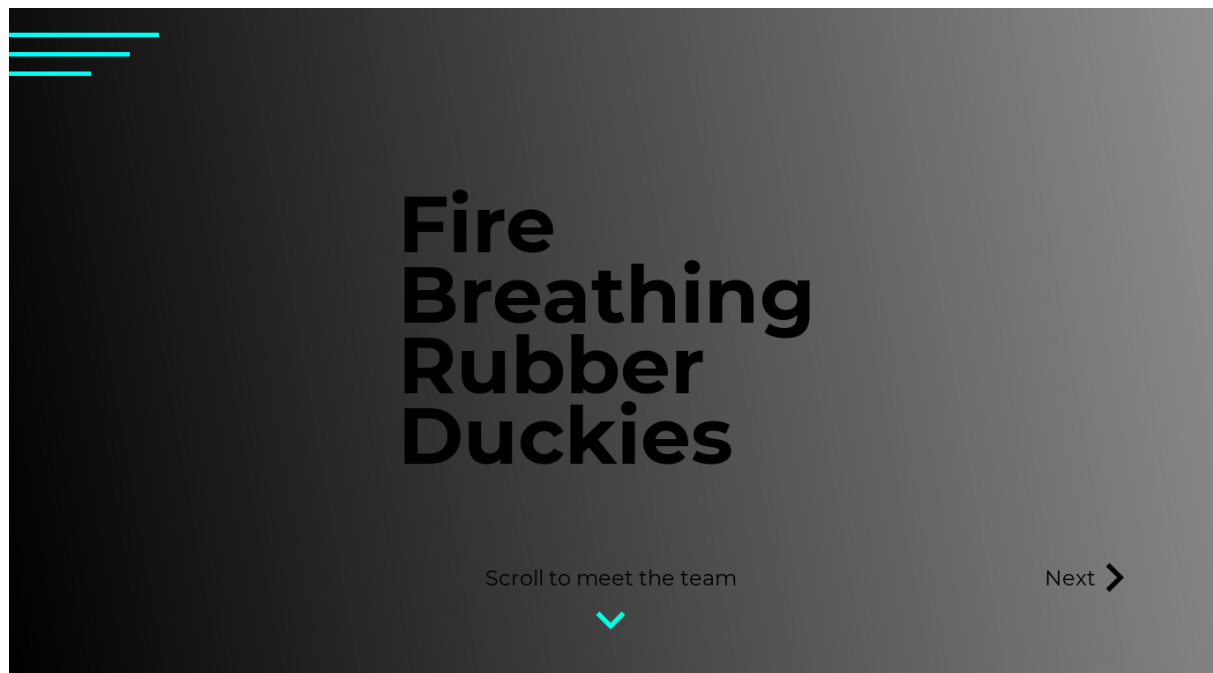
## Scope of services:

### Research:

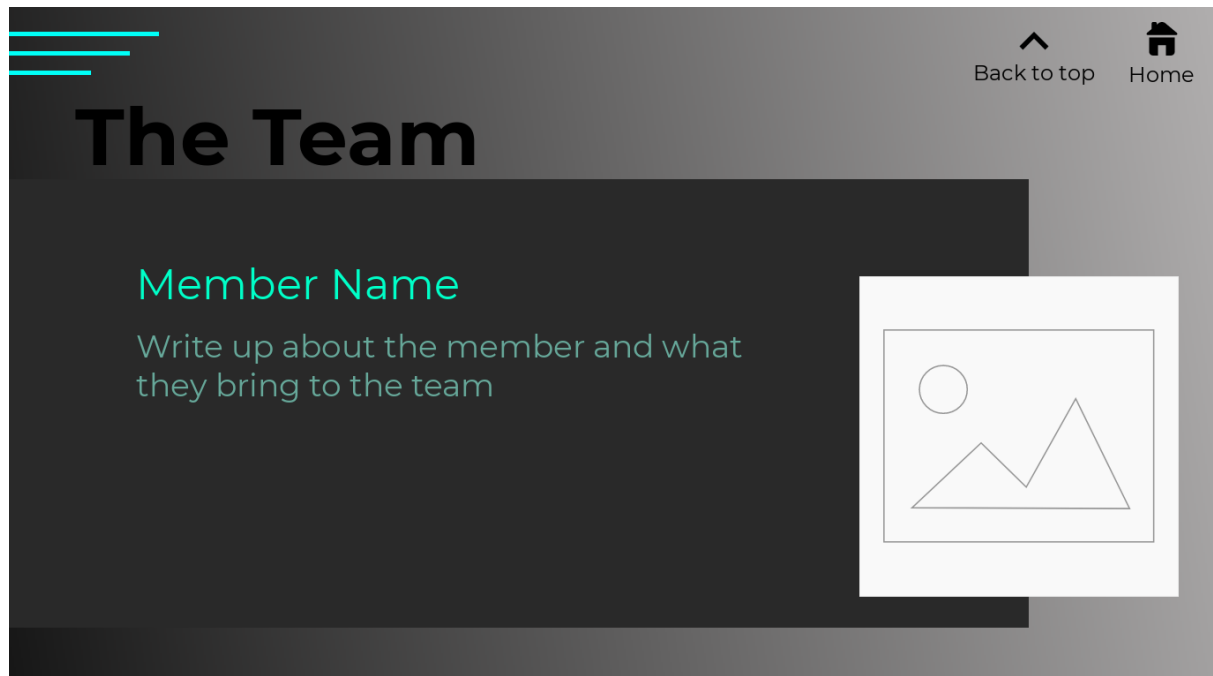
This project to be more of a team portfolio aimed to: prospective employers, people interested in the projects on display and their domains, as well as those who are keen in proposing new project ideas that test and develop our already existing as well as skill sets as well as those introduced proposed projects.

### Design:

When designing our website, we wanted to go with a modern style. Darker colours were incorporated to give a sleek and sophisticated look. On each page we have used a minimalistic design to keep the users' attention drawn to the information on the page. Abstract blue lines were included to add colour to the greyscale colour palette.



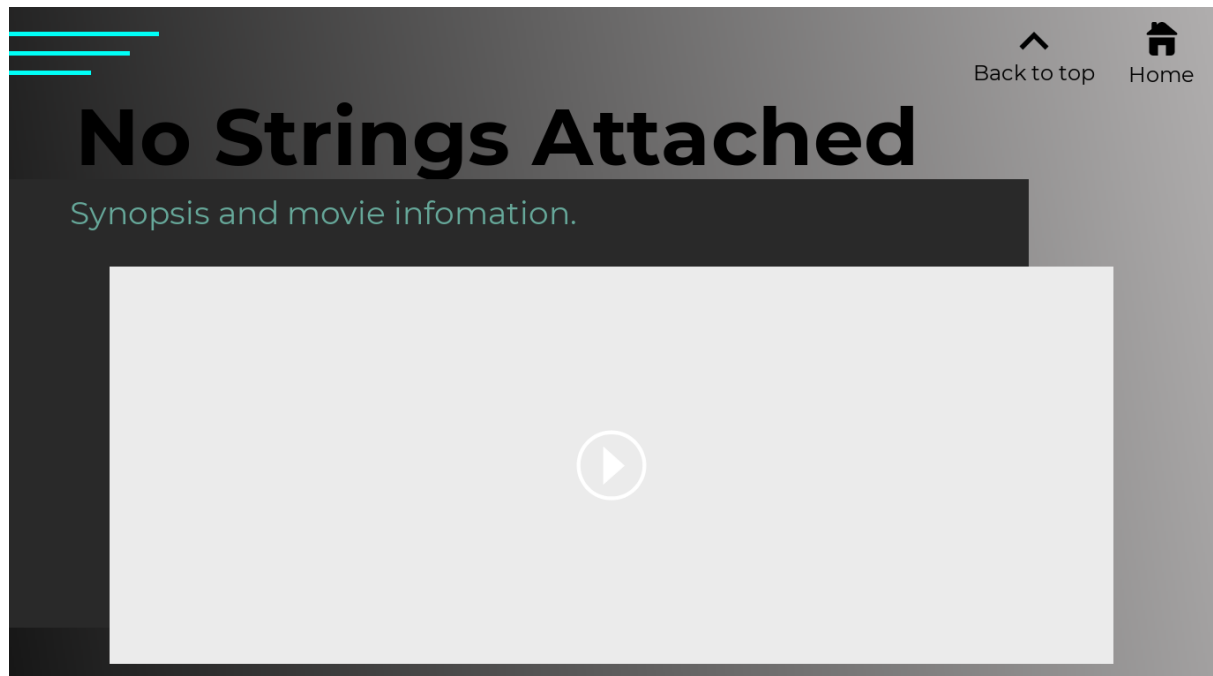
This will be the homepage of the website. A basic bold font, **Montserrat**, is used to complement the minimalist, modern theme. The same font but not bold is used for the instruction prompts: "Scroll to meet the team" and "Next". When the two prompts are hovered over, they will fade to blue.



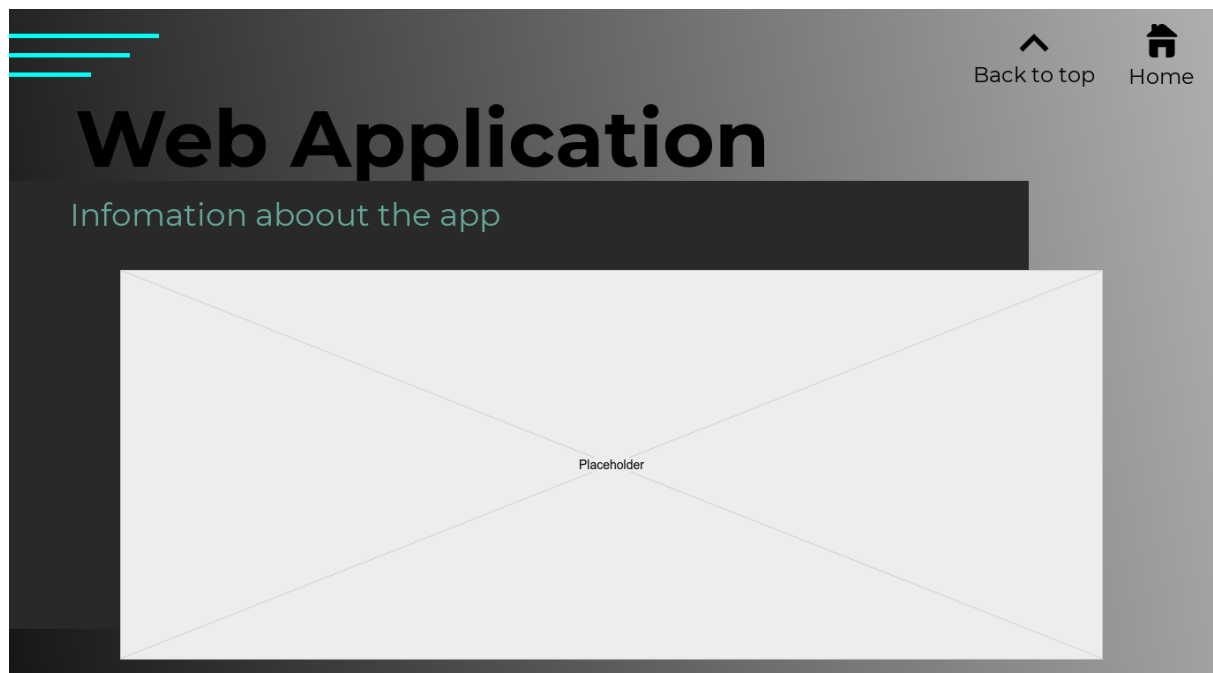
This page will be under the homepage and scrolled to using a parallax effect. The members of our team's pictures as well as a short summary of us and our areas of interest. An abstract modern feel is achieved with the use of a dark grey rectangle and off-centered placement of the images. Navigation buttons are included on the top right of the screen. This theme is used throughout the website.



A web-based game will be developed and included on this page. This page will be accessed by swiping right on the homepage, clicking "Next" from the homepage or in the navigation panel that will be added to each screen.



Our horror we made "No Strings Attached" will be played on this screen as well as a short summary of the movie.



Alternative Designs:

The website will have a toggle switch to change between a light and dark theme.

When designing the website, we looked at implementing a more bright, colourful and vibrant theme but settled on the modern sleek look to avoid over complicating and cluttering the site.

## Development:

We will develop the product using a combination of HTML5, CSS and Javascript. Each member of the team has past experience in working with each of these technologies. We will use HTML5 for the majority of the website, using CSS for the stylized elements of the website along with Javascript for any dynamic elements on the webpage.

## Additional Services:

### User Testing:

Aside from having the input of our experienced and knowledgeable lecturer, we intend to use the opportunity to let our student colleagues, friends and even lecturers if we have the opportunity, that are involved in Multimedia, or any particular field that relates to the project.

We will make use of user questionnaires to process and document their feedback. This we will use to enhance the project during development, and treat these users as valuable stakeholders throughout development. We intend to carry on with the use of Agile principles, which value and emphasize user involvement[1].



### Site hosting service:

As we have had to design and develop our own web applications and websites in the past we have had to find and choose appropriate hosting services/platforms for each of our projects, we can therefore apply this past experience in helping you decide which platform best suits your needs. These choices will be made clearer once we have chosen our architecture and relevant technologies.

## Why us?

Our team is a creative and skilled team, we have knowledge in a wide variety of fields in software development and design. We have worked on some large projects as well as small scale projects catering for those who need small or large programs. We are all willing to learn new skills as is required for completing projects.

## Our Team:

Charles de Villiers	Brett Fourie
	
I am a final year BSc Computer Science student at the University of Pretoria. I am hard working and dedicated to any project that I am assigned to, I'm always looking to learn from those around me and always try to keep an open mind in all situations.	I am a second year Computer Science student at the University of Pretoria. My interests include web development, gaming and sports. I was born in Pietermaritzburg, KZN and now live in Durban.
Justin Grenfell	Lesego Mabe



I am a final year Computer Science student at the University of Pretoria. I enjoy learning new and more efficient ways to solve problems. My main interests lie in the fields of Artificial Intelligence and Software Engineering.



I am a final year Computer Science student at the University of Pretoria. I have a keen interest in Software Engineering, Computer Security and Networking, but above all, Software Architecture. I enjoy the freedom for creativity that software provides and am always willing to learn.



## Past & Current Projects:

### ERP Ranger mobile application:

A member of our group was involved in the design and implementation of a mobile application for the volunteer rangers of the ERP rangers group (<https://www.erp.ngo/erp-rangers>). The application was made to gamify the patrolling of nature reserves where the ERP rangers are involved, and to allow administrators to track who was in the reserve at what time. This project will help increase the safety of animals in the reserve

The project:

<https://github.com/cos301-2019-se/ERP-Ranger-Mobile-Application>

### Botic - Privacy aware chatbot:

Justin and Lesego are involved in designing a privacy aware chatbot for Epi-Use labs. The bot uses Artificial Intelligence to warn users of any potential harmful or identifying private information they may have accidentally typed in before sending the message they wish to send. This bot helps to protect users as well as businesses.

The project:

<https://github.com/cos301-2019-se/Botic>

## References:

1. Victor, J. (2012). *Best Practices for Web Design in a Multi-browser Multi-platform Digital Universe*. [blog] business2community. Available at: <https://www.business2community.com/tech-gadgets/best-practices-for-web-design-in-a-multi-browser-multi-platform-digital-universe-0200879> [Accessed: 16 Aug. 2019]
2. D. C. Kung, *Object-Oriented Software Engineering An Agile Unified Methodology*. McGraw-Hill, 2014.

//delete everything below this line before submitting

Example templates of website design proposals:

<https://templates.proposify.com/proposal-template/responsive-web-design/609297>

<https://www.codeinwp.com/blog/web-design-proposal-template/>

Reference guide:

<http://www.citethisforme.com/harvard-referencing>