



# Brantano-Shop Project Plan

---

OCTOBER 1

---

The International Web Designers

Authored by:

Julian Groom – Project Manager

---

# Contact Information

Project Manager – Julian Groom (r0755814@student.thomasmore.be)

Technical Lead – Serhat Albayrak (r0739124@student.thomasmore.be)

**Team name – The International Web Designers**

**We are using “Microsoft Teams” for our group communication.**

## Scope

Web-Shop Functionality	Technical Implementation
User Account Management (Login)	<b>Backend: API – “Lite DB” Database (Cloud-Based Data center)</b>
Access to catalog of shoes	
Storage of order information	
Storage of product reviews	
Homepage	<b>Frontend: HTML, CSS, JavaScript, Vue.js</b>
Browsing page (category selection: shoes, accessories)	
Product page (with review feature)	
Search feature	
Order history page for customer	
Login page / Sign-up page	
Shopping cart page	
Order page(s)	
Returns page	
Weekly Newsletters	<b>Mail Server</b>
Google Analytics	<b>JavaScript</b>
Payment System	<b>Skrill</b>



## Backend - Cloud-Based Data Center

To Implement the desired functionality of the new “Brantano-Shop” we have concluded that there are two main systems that we need. Firstly, we need to create as you have described a “cloud-based data center”. This will need to be capable of storing data needed for the website to function, such as user, product and order data. This system will also help your firm manage inventory and access order information. To provide “cloud” access to the databases, we decided building an API would be best

---

suited. We will secure the API so that only user and order data from the logged in user can see their orders and personal information. We will additionally provide administration access to see order information from any user as well as well as a system to import and export data from the database. We will be sure to review our compliance with the GDPR before we deploy the API.

Product Data	Customer Data	Order Data	Review Data
Product number	Account number	Account number	Account number
Name	First Name	List of products	Model number
Shoe size	Last Name	Date/Time	Score (1-5 stars)
Price	Address		Review text
Inventory	Phone Number		
	Payment Card number		

 **Public**       **Secured**

## Frontend – Website Interface

We will create the website itself to allow users to interact with the web-shop. To help speed up this process to be able to finalize the project by the deadline, we will use some royalty free templates for the basic HTML structure and CSS design. However, the templates will just be used as an aid and all pages will be uniquely created and developed for the “Brantano-Shop”. Once the API, HTML and CSS is mostly ready, we will begin using JavaScript to integrate the API / Backend with the Frontend. This will allow all the functionality dependent on the Cloud Database to function.

## Mail Server

To promote products to existing users we will create an SMTP Mail Server. This mail server will be set-up to send weekly email newsletters to users that opt-in for this feature. If we have enough time before the deadline, we will make the newsletters personalized to the user based on their order history.

---

## Google Analytics

To provide you with feedback on how the website is performing and what actions users are taking, we will implement “Google Analytics”. By inserting JavaScript code on the website, we will be able to track these data.

## Payment System

Ideally, we would use a 3<sup>rd</sup> party payment provider such as PayPal or Skrill. However, without access to business documents we cannot implement them. Instead, we can create a secure way to accept and store credit card information which can then be used by you internally to process the payments.

## Extras

Given the time constraints we must prioritize what functionalities are most important. If we happen to have more time than expected before the deadline, we may implement the following features:

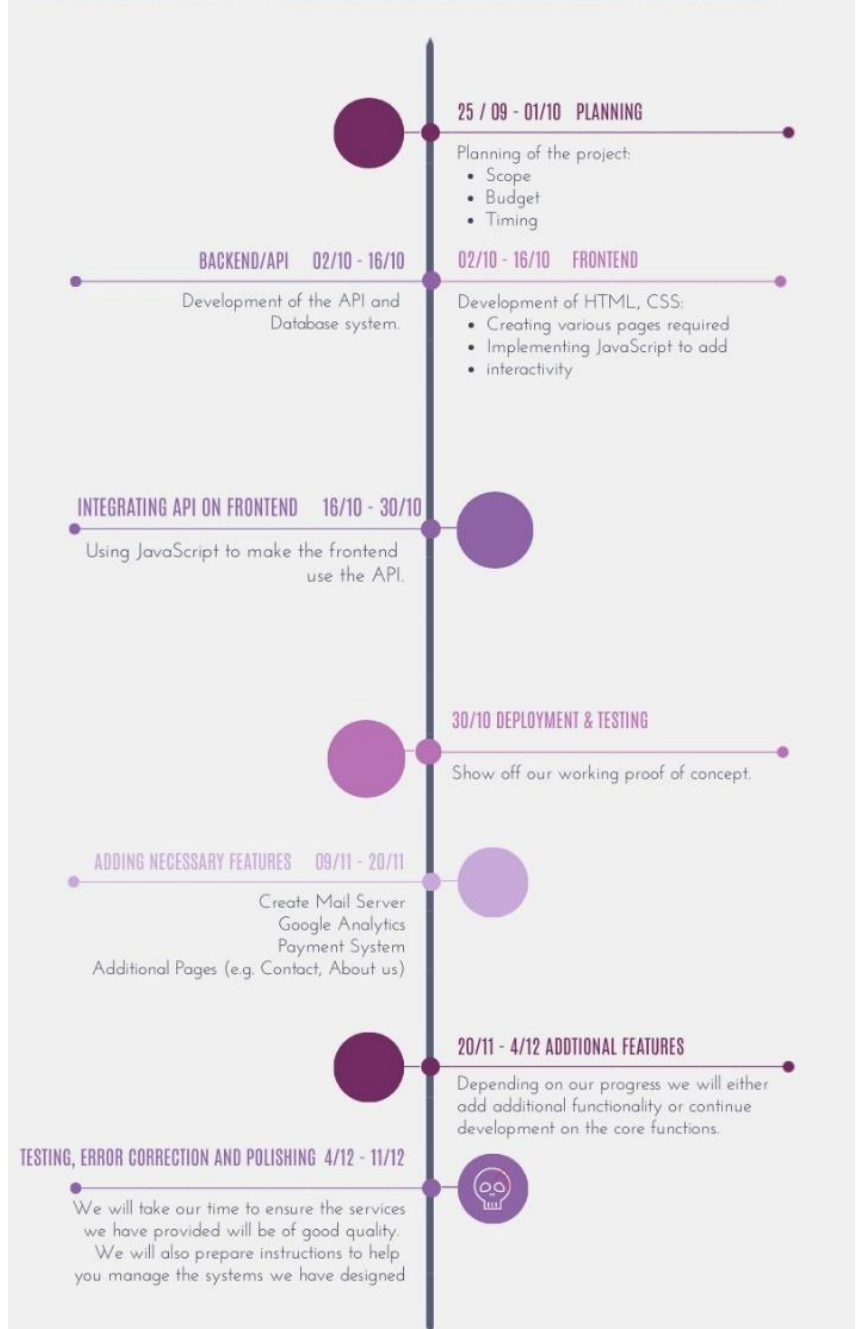
- Lowest-Price Guarantee
- Cross-Selling
- 2 Factor Authentication

## Budget

We will try to eliminate all usual costs in such a project. By using “dot tk” for the domain name, using free software for the development and paying ourselves no salaries, we can succeed even with a budget of 0.

We expect to not to use much, if any, monetary capital for the project. However, we will try to make the best use of our human capital as a team. In the first stage of the project 2 people will focus on developing the backend while the other 6 can work on the frontend. By dividing these tasks into subgroups, we will be able to achieve more in a shorter period. We also are taking into consideration what skills each of us has to optimize our productivity.

# Timeline



---

# Team Roles and Tasks

Team member	Current Task
Angelbert Afong Fru Emmanuel	Front-End Development (Collaboratively)
Arjun Thanneeru	
Ernest Fon Ndoh	
Hector ngong Aji	
Lovro Tojcic	
Serhat Albayrak (Technical Lead)	
Min Jié Fan	Back-End Development (Collaboratively)
Julian Groom (Project Manager)	

## Security

We will implement various technologies to secure the website. We will store all sensitive information “Hashed” – meaning they cannot be read without a password. We will implement HTTPS and run tests to find any vulnerabilities.

## List of Technologies

- HTTPS
  - Vue.js
  - Google Analytics
  - LiteDB
  - VS Code
  - Visual Studio Community
- 
- HTML
  - CSS
  - JavaScript
  - jQuery
  - C#
  - SQL