

FINAL DELIVERABLE REPORT

(SPACEX MICROWEBSITE)

(PROJECT EXAM1)

ASSIGNMENT

(PROJECT REPORT)

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1. EXECUTIVE SUMMARY

This document represent the complete report regarding each phase of project delivery, starting from information gathering, doing research, identifying functional specification, creating personas, designs, mocks, as well as prototype and implementation, and testing with conclusions.

2. FUNCTIONAL SPECIFICATION DOCUMENT

a. INTRODUCTION:

This part of the document represent the requirement gathering and analysis process, as well as the basic design of the microwebsite for SpaceX.

The general key requirements given by the business owner are represented below as a vision/scope document:

Build a microsite for SpaceX or NASA with the focus on space technology.

A microsite is a branded, self-contained site, usually on its own domain, with a single purpose and a limited number of pages. The purpose can be promotional or editorial, and be may linked to a specific event or period of time.

i. KEY REQUIREMENTS

- Create a microsite for SpaceX/NASA to raise awareness about space program activity around the world. The site should appeal to a specific target audience and provide links to more information, live feeds of launches, and so forth.
- The site should include a minimum of (4) pages, be responsive, and function well on a variety of platforms.
- The site should employ Javascript/JSON API for dynamic data and construction and styling of HTML/CSS. While a calendar is not mandatory, some kind of schedule or timeline information is recommended.
- A contact form with both HTML5 and Javascript validation is required.
- The site should be well designed and easy to use, and conform to WCAG standards.

b. REQUIREMENTS DOCUMENT

Then I tried to make a Requirements Document based on the key requirements given above. In this part of the document, I have tried to make and differentiate business, users, operational and system requirements.

User Requirement:

- Microwebsite.
- Recent launches information
- Events schedule (future and past)
- User Friendly Site.
- Exploratory stuff: books, videos, images.
- Contact channel available.

Business Requirement:

- Science and Technology awareness program information.
- Online education material about Space and NASA
- Contact details to be listed on site.
- 24/7 support services available to all customers.
- Feedback possibility

Operational and system Requirement:

- Events scheduling system
- 24/7 up and running site

c. USAGE SCENARIO DOCUMENT

Based on the vision and scope document, and the redefined detailed requirements in the requirements document, I have

tried to create usage scenario document for the key functions of the business. Here are those usage scenarios:

Usage Scenarios

Scenario no 1 (Space launching events schedule).

- User Open the websites.
- Check the schedule of events.
- Get events details, photos, videos and other reading material

Scenario No 2 (Provide feedback).

- Click any page.
- Go to bottom of the page at footer section
- Write desired feedback in comment area and provide personal information for future contact.

Scenario No 3 (Contact SpaceX).

- Click on the contact us menu item
- Fill in the form
- Write the desired query and submit

d. FUNCTIONAL SPECS SUMMARY

In the functional specification document, key business requirements are analysed that need to be divided in the user, business, and operational system requirements. Usage scenarios are also defined in this document.

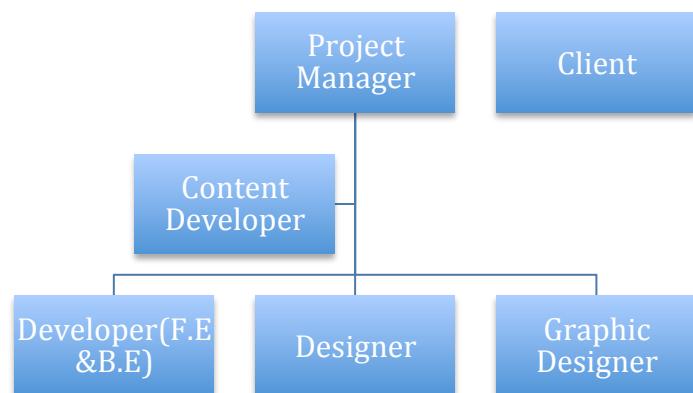
3. PROJECT PLANNING DOCUMENT

a. INTRODUCTION:

A microsite needs to be developed for SpaceX/NASA. It provides information about the launches and one can explore the informational material about the space and related equipment in the form of educational programs, videos, images, lectures, seminars etc.

b. RESEARCH AND ANALYSIS:

i. TEAM CHART:



ii. ANALYSIS

The main task is to focus the key end-users of the website. To make such decisions for the design, color scheme and theme of the website, we need to do research on the following:

- 1) To focus the end users and their purpose of visiting website
- 2) To research on the thinking of the people and their age-group
- 3) Develop the taste of the people.
- 4) The main issues is to how to attract the people.
- 5) Focus on schedule of launching events and other side events.

- 6) Main focus on Graphical designing of the website (images, videos, theme, color palette) that attracts the people attention.
- 7) Exploratory stuff on the website, for examples, books, videos, images.
- 8) Event launch schedule, with past and future events and respective details.
- 9) Choice of color scheme and theme for the website is challenging.

iii. SKETCHES – SCANNED IDEA DEVELOPMENT AND DIGITAL SKETCHES



c. WORK PROCESS

Here we write about the process and choices we have made to finish the product.

i. STYLE/GENRE

By designing the website first we design the style tile for website and to keep in mind we are building a website for Space company. The following steps to make the website style tile,

1. HEADER SECTION:

In the header section we have the logo and the company name with big size fonts and style which shows the title of the website.

2. MAIN NAVIGATION MENU:

We make the navigation menu for users to navigate the website easily for example, Home, Menu, Launches, Events, Explore More, Contact us and About us.

3. COLOR PALETTE:

In this section we will show the color scheme of our website. Which color is for background, fonts, headings, buttons etc. color palette or theme is very important part of the website because this section needs creativity if your color does not attract the eye of customer so most chances are they skip your website and get bore easily. The color scheme and content should be designed in a way that it keeps the active engagement of the users.



4. TYPOGRAPHY:

In the typography section we chose the font family for website. Which means font style, size etc., secondly we have to use font that can be easily read on mobile or other devices.

5. ICONS STYLE:

In this section we design buttons for website, also we design the button according to the website requirement.



6. FOOTER SECTION:

In the footer we write the copyright statement for the company and also gives the social media links or other links. It can also represent the feedback form.

ii. STYLETILE

Styletile is presented in Appendix [2].b

d. COLLABORATIVE COMMUNICATION TOOL:

We use the Slack tool for communication with team members during the whole the project. Also this tool is used for meetings with Clients and other persons related to the project.

i. SLACK:

Slack is more popular for some of its unique and developed features. It is mobile friendly as well. Some of the key features of this collaborative communication tool are group projects, video conferencing calling, excellent interface, on-desk notifications, and drag-and-drop files. It can be integrated with the Google Docs and Dropbox. It enables you to send direct messages to a private person, or groups and to start conversation.

ii. DROPBOX TOOL (FILE SHARING):

This is used during the project for file sharing.

iii. GITHUB FOR (DEVELOPMENT CODE):

Github is used to share the code and related documentation.
Here is the URL for repo:

https://github.com/rajawaqasahmed/Project_Exam1_FED_Norooff

iv. FORMAL EMAIL CONVERSATION:

We use Microsoft Outlook for the formal conversation with team members and Customer or Business Development Persons.

4. DESIGN DOCUMENT

a. INTRODUCTION:

This report represents the decisions made for the choices regarding SpaceX website prototype/wireframe, storyboards. The process started by analyzing and understanding the users first, and creating the main categories of information and its flow. After that, the different design choices were checked and then finally developed and tested the website with the chosen design and information.

b. ANALYZE THE USERS:

Considering different types of website audience (adults, children and seniors), we have tried to gather and analyze information. Mostly the target audience for this website are Adults, but most focus is on age range from 30 to above (young, tech-savvy or both).

i. QUESTIONNAIRE:

To understand the users goal and intention, I have designed a questionnaire that I sent to different people. The questionnaire is represented as follows:

Questionnaire regarding SpaceX Company:

Dear,

This is my project assignment to create a website for NASA or SpaceX. In this context, I have to do research, analysis, design and development about space micro-website.

Kindly answer these question as a USER of a Space website.

1. What is your primary Goal to visit the website?
2. What other information would you like to get from this website?
3. What kind of content you would like to have on Space Website?
4. Would you like to use the website for purchasing the product related to space or NASA?
5. Are you interested in the Live streaming of Launching event

- and Space?
6. Are you interested the Pictures and Videos about Space, Planets, Stars and Galaxy?
 7. Would you like to get information about Space technology in terms of books, DVDs, Seminars and webinars?

ii. FEEDBACK RECEIVED:

Following feedback is received from persons:

Person 1:

QNo1: What is your primary Goal to visit the website?

Ans: To get information of projects and see pictures.

Qno2: What other information would you like to get from this website?

Ans: Interactive material to learn more about the space.

Qno2: What kind of content you would like to have on Space Website?

Ans: Diverse and informative

Qno4: Would you like to use the website for purchasing the product related to space or NASA?

Ans: Sure

Qno5: Are you interested in the Live streaming of Launching event and Space?

Ans: Off-course

Qno6: Are you interested the Pictures and Videos about Space, Planets, Stars and Galaxy?

Ans: Yes

Qno7: Would you like to get information about Space technology in terms of books, DVDs, Seminars and webinars?

Ans: Yes

Person 2:

QNo1: What is your primary Goal to visit the website?

Ans: At this type of site I came to check pictures about space or videos about space.

Qno2: What other information would you like to get from this website?

Ans: Interactive material to learn more about the space.

Qno2: What kind of content you would like to have on Space Website?

Ans: Diverse and informative

Qno4: Would you like to use the website for purchasing the product related to space or NASA?

Ans: no.

Qno5: Are you interested in the Live streaming of Launching event and Space?

Ans: yes if it seems interested

Qno6: Are you interested the Pictures and Videos about Space, Planets, Stars and Galaxy?

Ans: Yes

Qno7: Would you like to get information about Space technology in terms of books, DVDs, Seminars and webinars?

Ans: Yes

Person 3:

QNo1: What is your primary Goal to visit the website?

Ans: Check news about space or if there is any seminar /expo.

Qno2: What other information would you like to get from this website?

Ans: About space or Nasa.

Qno2: What kind of content you would like to have on Space Website?

Ans: live news feeds.

Qno4: Would you like to use the website for purchasing the product related to space or NASA?

Ans: no.

Qno5: Are you interested in the Live streaming of Launching event and Space?

Ans: yes if it seems interested.

Qno6: Are you interested the Pictures and Videos about Space, Planets, Stars and Galaxy?

Ans: Yes

Qno7: Would you like to get information about Space technology in terms of books, DVDs, Seminars and webinars?

Ans: Yes

Person 4:

QNo1: What is your primary Goal to visit the website?

Ans: Open to show my Kids to take interest in space related information or NASA information.

Qno2: What other information would you like to get from this website?

Ans: Program for kids or any other related information about kids.

Qno2: What kind of content you would like to have on Space Website?

Ans: Reading Materials or Kids related Stuff.

Qno4: Would you like to use the website for purchasing the product related to space or NASA?

Ans: if something special for kids toys or books.

Qno5: Are you interested in the Live streaming of Launching event and Space?

Ans: yes if it seems interested.

Qno6: Are you interested the Pictures and Videos about Space, Planets, Stars and Galaxy?

Ans: Yes

Qno7: Would you like to get information about Space technology in terms of books, DVDs, Seminars and webinars?

Ans: Yes

After receiving the feedback of questionnaire, I made following personas:

Story Board (Persons)

User No 1
Liquemain

- 1) Primary Goal: Get information and see the pic.
- 2) What other info (Interactive material to learn)
- 3) Diverse and informative
- 4) Interested in live streaming of launching event and space.
- 5) Like to have knowledge about space.

User No 2
Ithat Ahmed

- 1) Primary Goal to get older and relevant method
- 2) Interested in the live news feed.
- 3) Not interested to purchase the items
- 4) Want Picture and video gallery.

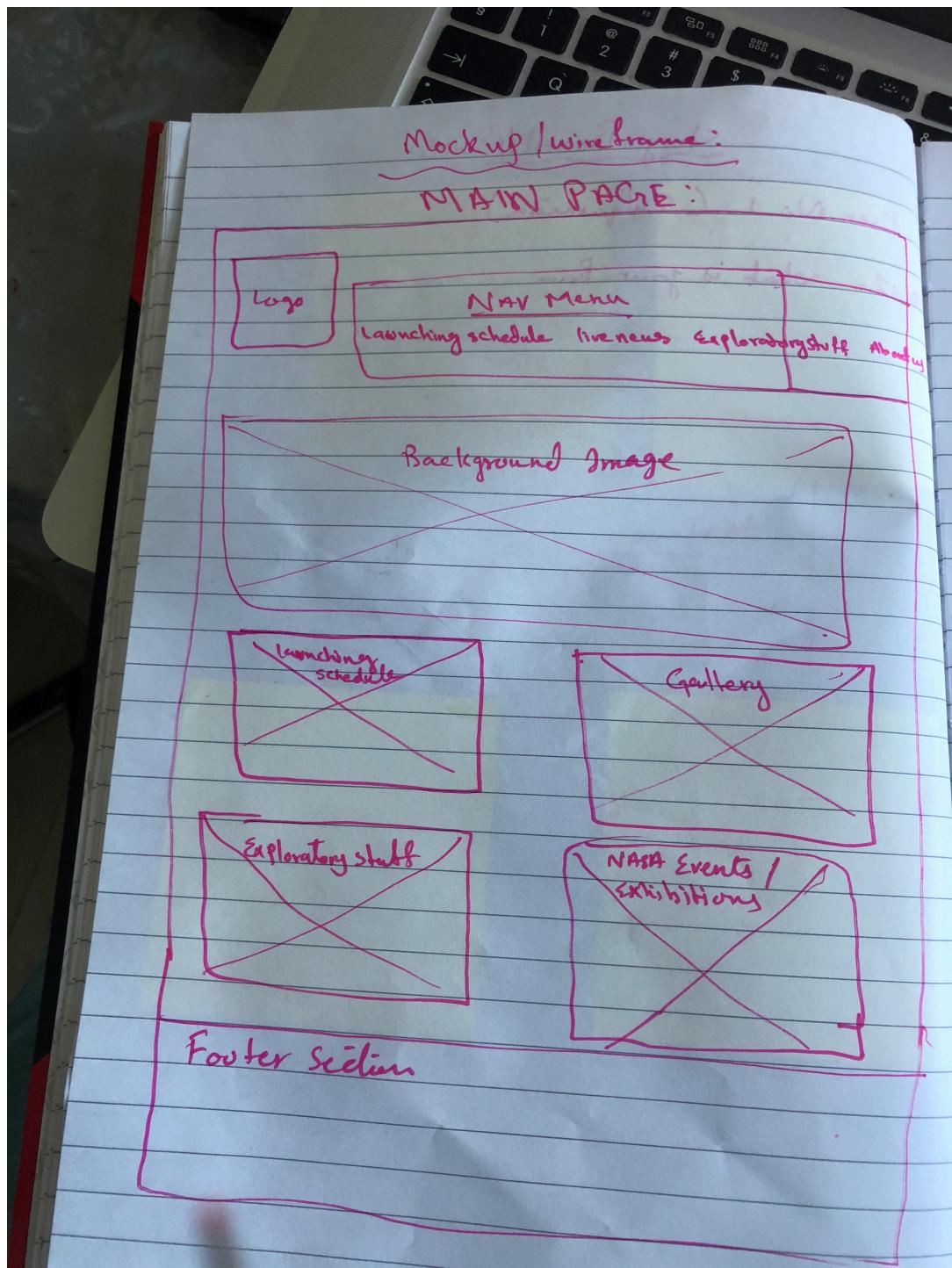
User No 3
wazal

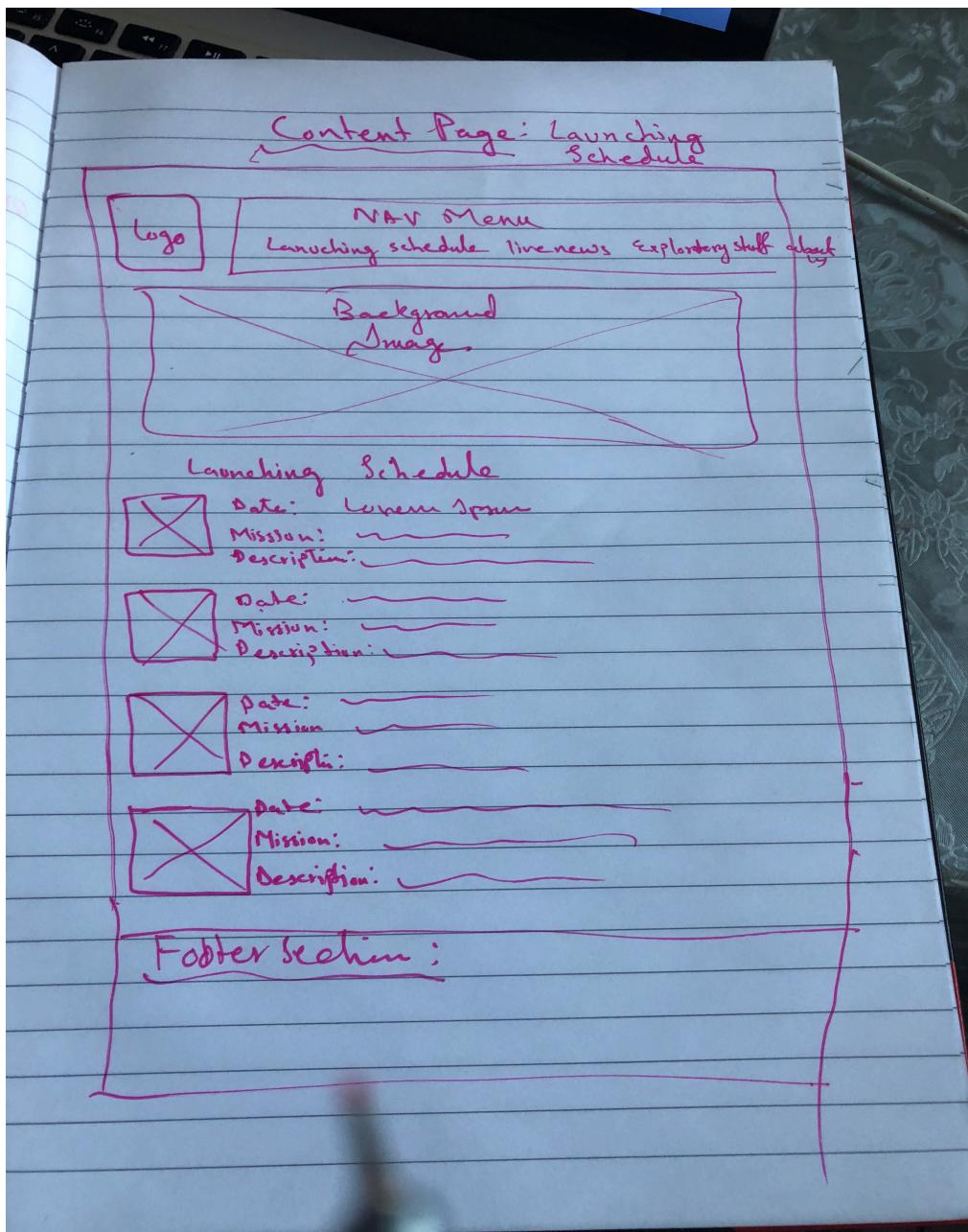
- 1) Primary Goal to watch interesting things about space.
- 2) Design and content must be easy to understand.
- 3) Must have pic and video gallery.

User No 4
A2her

- 1) Primary Goal is to see the pic and videos or reading a blurb about space.
- 2) Reading stuff and information about space is most good if there is a minnow or EXPO.

C. WIREFRAMES / SKETCHES OF SITE:





Based on the wireframe designs, I designed and made a prototype in Adobe XD. Following red-colored hierarchy shows the working pages of category and content pages.

- **Home page**
- **Launching Schedule**
- **Exploratory Stuff**
 - **Gallery**
 - **Books**
- **Contact Us**
- **About US**
- **Success.html (form validation success page)**

d. PROTOTYPE URL:

Here is the URL of Adobe XD prototype:

<https://xd.adobe.com/view/7503b5a6-a3f6-4a9e-48cd-e26cee33c1bf-0332/?fullscreen>

5. PROGRAMMING HTML/CSS/JS

a. INTRODUCTION:

I have developed SpaceX microwebsite using HTML5, External CSSes, Bootstrap 3 and Javascript. I have used Bracket as a development environment.

Main things kept under focused while development are: WCAG standards, image optimization, SEO and being fully responsive.

Following API has been chosen because it informs previous and upcoming launch events schedule.

<https://api.spacexdata.com/v2/launches/all>

From the above-mentioned API, we can fetch the date in the format of UTC, local time or unix time stamp. I have used JS builtin methods to get the year, month, day, hour and minutes value from the time object value and printed it in the human readable form. Further, I have printed the schedule for upcoming events in the ascending order, whereas past events in the descending order , because that looked more appropriate considering the need of information desired by the page visitor/viewer.

Contact us form and feedback form are validated through Javascript and HTML.

6. PROJECT WRAP UP:

In the last few years, the space market has experienced increasing competition. The industry has to supply high quality information for a larger variety of customers, and better informational material with recent updates.

The website design method consists of different phases which is described under in detail. The first phase is to gather as much information as possible from the business owner and create the specification document. Second, create a GANTT CHART for project in which we plan all the project tasks and milestones and the related resource persons. Then to create a Style Tile for the website. Based on the research and analysis performed during initial stages of the project, make the usage scenarios and divide the requirements for various sprints to deliver gradually using Scrum methodology. Take frequent feedback from the business owner and implement the

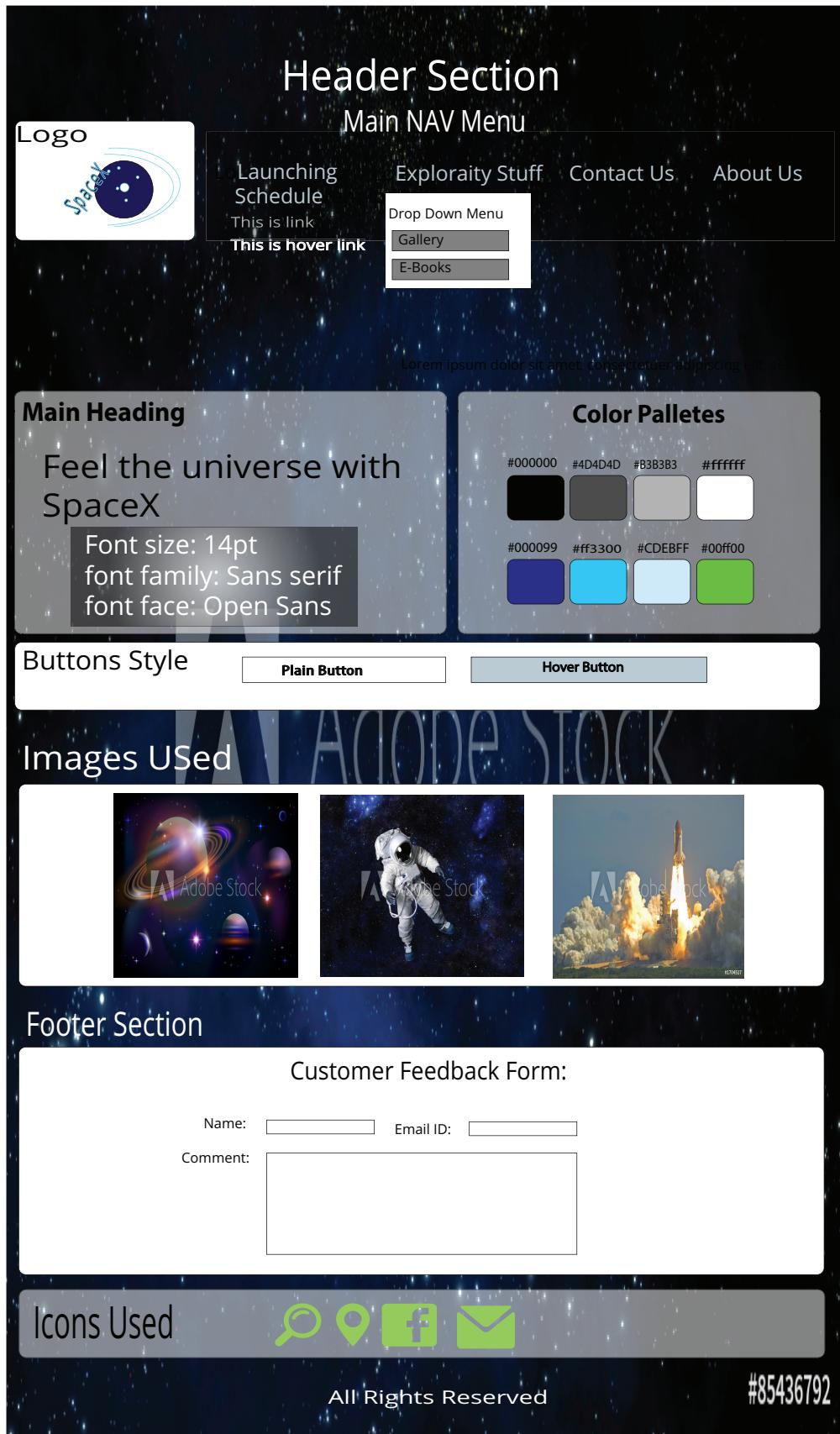
required/desired changes, and test the website before deployment. Finally handover all the code and documentation to the business owner. Considering, this was a microwebsite, therefore I have designed and developed most of the things in first sprint, and then only testing and user feedback is implemented in the second round of delivery. After the evaluation by examiners, if there are other things need to be fixed, those will be catered in the third round for final delivery.

7. REFERENCES:

- [1]. Adobe Stock images

[2]. APPENDICES:

a. STYLE TILE



b. PROJECT PLAN

Space X or NASA site	
Raja Waqas	
Project manager	May 20, 2018
Project dates	http://rajawaqasahmed.com
Completion	Manager
Tasks	May 14, 2018 - Jun 22, 2018
Completion	0%
Tasks	46
Resources	6

Planning Report for the Project of Building a Website (Space X or NASA)

Space X or NASA site

May 20, 2018
2

Tasks	Name	Begin date	End date
Information Gathering and Requirement Analysis		5/14/18	5/14/18
Planning / Research / Organizing		5/16/18	5/21/18
Research	Project Initial Meeting / Brain Stroming	5/16/18	5/16/18
	Identifying Goal / Assessment and Planning	5/16/18	5/17/18
	Strategic Planning / Content Planning	5/17/18	5/18/18
	Site Outline	5/21/18	5/21/18
	Project Planning Document	5/22/18	5/22/18
Functional Specification Document		5/22/18	5/23/18
Requirement Analysis Document		5/22/18	5/23/18
Usage Scenario		5/22/18	5/23/18
Sprint Plans		5/23/18	5/23/18
Functional Spec document report		5/24/18	5/24/18
Initial / Final Design		5/24/18	5/29/18
Site Structure		5/24/18	5/24/18
Style Tiles		5/25/18	5/25/18
Prototype / Wireframe		5/28/18	5/28/18
Text Content Development		5/29/18	5/29/18
Sketches and Mockups		5/29/18	5/29/18
Design Document		5/30/18	5/30/18
Sprint 1		5/30/18	5/31/18
Development of User Stories		5/30/18	5/30/18
Daily Scrum / Standup		5/31/18	5/31/18
Sprint 1 Retrospective		5/31/18	5/31/18
Sprint 1 Document		5/31/18	5/31/18
Sprint 2		6/1/18	6/4/18
Implementation feedback from Sprint 1		6/1/18	6/1/18
Development of User Stories		6/1/18	6/1/18
Daily Scrum / Standup		6/1/18	6/1/18
Sprint 2 Retrospective		6/1/18	6/4/18
Sprint 2 Document		6/4/18	6/4/18
Testing		6/5/18	6/13/18
Functionality Quality Assurance		6/5/18	6/6/18
Sprint 1		6/5/18	6/6/18
Sprint 2		6/5/18	6/7/18
Usage Scenario Testing		6/11/18	6/11/18
Whole System Testing		6/12/18	6/13/18
Testing Report		6/14/18	6/14/18

Space X or NASA site

May 20, 2018

3

Tasks

Name	Begin date	End date
Feedback / Summary	6/15/18	6/19/18
Feedback Input	6/15/18	6/15/18
Changes Deployment	6/18/18	6/19/18
Changes Testing	6/19/18	6/19/18
Summary Report	6/20/18	6/20/18
Hand over	6/21/18	6/21/18
Code Handover	6/21/18	6/21/18
Service Level Agreement for Future	6/22/18	6/22/18

Space X or NASA site

May 20, 2018

4

Resources

Name	Default role
Business Analyst/Stakeholders	analysis
Manager	project manager
FrontEnd & BackEnd Developer	developer
Content Developer	doc writer
Designer	graphic designer
Tester & Quality Assurance	tester

Space X or NASA site

May 20, 2018

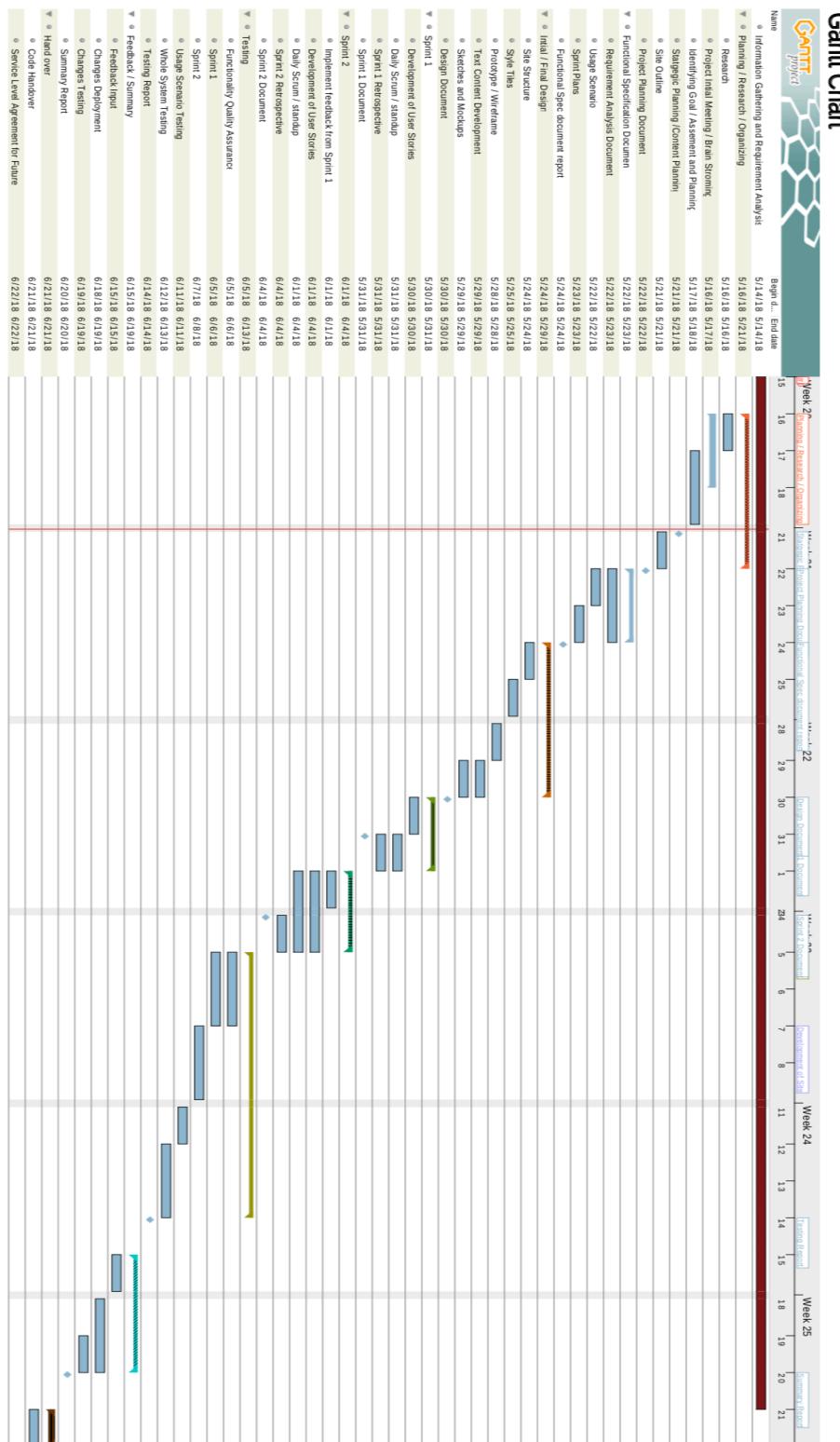
6

Resources Chart



Space X or NASA site

Gantt Chart



c. PROTOTYPE SCREENSHOTS

Main_Page_SpaceX

Header Section

Logo

Launching Schedule

Exploratory stuff

Contact us

About us

Gallery

Launch Schedule

Future Event

Past Event

Footer Section

Contact Us
Location Map
Address

User Feedback Form

Name : Email :
Comment :

Social Media Icons:

Header Section

Logo

Launching
Schedule

Exploratory
stuff

Contact us

About us

Future Event

Date: 01/5/2019

Mission: Lorem Ipsum

Description: Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum
Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum

Date: 01/8/2018

Mission: Lorem Ipsum

Description: Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum
Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum Lorem Ipsum

Date: 01/7/2018

Mission: Lorem Ipsum

Description: Lorem Ipsum Lorem Ipsum Lorem Ipsum
Lorem Ipsum Lorem Ipsum Lorem Ipsum

Past Event

Date: 01/5/2019

Mission: Lorem Ipsum

Description: Lorem Ipsum Lorem Ipsum
Lorem Ipsum

Date: 01/8/2018

Mission: Lorem Ipsum

Description: Lorem Ipsum
Lorem Ipsum

Footer Section

Contact Us
Location Map
Address

User Feedback Form

Name : Email :
Comment :

Social Media Icons:

Header Section

Logo Launching Schedule Exploratory stuff Contact us About us

Gallery

A 4x4 grid of 16 images showing a rocket launch and a futuristic landscape.

Footer Section

Contact Us
Location Map
Address

User Feedback Form
Name : Email :
Comment :

Social Media Icons:

Header Section

Logo Launching Schedule Exploratory stuff Contact us About us

Contact Us

First Name :

Last Name :

Email :

Phone No :

Comments:

Submit

Footer Section

Contact Us
Location Map
Address

User Feedback Form
Name : Email :
Comment :

Social Media Icons:

Header Section

Logo Launching Schedule Exploratory stuff Contact us About us

Thank you!

Thank you for contacting us, we will get back to you soon.

Footer Section

Contact Us
Location Map
Address

User Feedback Form

Name : Email :
Comment :

Social Media Icons:

#85

Header Section

Logo [Launching Schedule](#) [Exploratory stuff](#) [Contact us](#) [About us](#)

Capabilites and Services

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Donec molestie feugiat porttitor. Cras vehicula leo justo, et posuere nulla dictum vitae. Maecenas turpis odio, rutrum nec ante nec, interdum pretium nunc. Cras dictum erat quis dolor malesuada, id facilisis magna blandit. Quisque pretium quam vel orci finibus sodales. Sed varius turpis vel iaculis tempor. Curabitur ligula ipsum, iaculis eget diam non, ultricies varius velit. Suspendisse convallis, risus ac fermentum consectetur, ante tortor placerat turpis, et pretium libero urna eget ante. Vivamus tempus eros nec ante mattis, non faucibus nibh interdum. Donec dictum in lacus eu fringilla. Maecenas volutpat fermentum tempor. Duis ac sem urna. In nunc elit, eleifend vitae aliquam at, finibus sed sapien.

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Footer Section

**Contact Us
Location Map
Address**

User Feedback Form

Name : Email :
Comment :

Social Media Icons: