



Design Document

Design Document for the Gail S. Halvorsen
Aviation Education Foundation

Version 3.0
December 2017
Morgan Hansen

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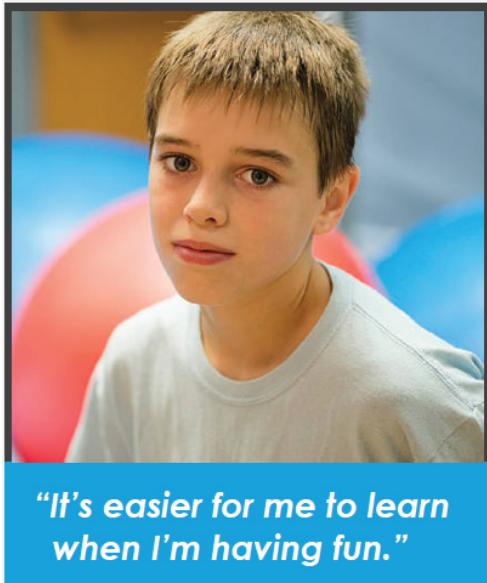
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1.0 Strategy

To decide which design approach to take, the Digital Media (DGM) Team met with representatives from the Gail S. Halvorsen Aviation Education Foundation (The Foundation) in an initial kickoff meeting and discussed the purposes of the site and potential target audiences for the site. Those representing The Foundation concluded that they would like to target educators, students, and city/state officials. The DGM Team developed the three personas shown below to represent these groups and help guide ongoing design decisions. More detailed profiles showing typical goals, motivations, and behaviors for each persona are included on the following pages.



"Finding helpful educational tools makes my life easier."



"It's easier for me to learn when I'm having fun."



"Planning and preparation are essential for success."

Julie, The Educator

Gentry, The Student

Brent, The City Official

Conclusion:

Since one of the main purposes of The Foundation is to promote aviation education, the DGM Team will consider The Educator as the primary persona and pay special attention to designing the site to appeal to and address goals and needs of professional educators. The site will also be designed to be useful and interesting to students and other community members as well.

1.1 Primary Persona: Julie, The Educator



"Finding helpful educational tools makes my life easier."

AGE: 42

OCCUPATION: Teacher

STATUS: Married

LOCATION: Springville, UT

INTERESTS: Hiking, Gardening, Crafting

Organized

Friendly

Creative

Bio

Julie is a 42-year-old educator who teaches 4th grade in Springville, Utah. She enjoys gardening, hiking in the mountains near her home, and spending time with her husband and two teenage sons. Julie loves teaching and strives to find engaging and entertaining ways to teach her students new concepts. Her students love her warm, friendly personality and easygoing manner. Julie prides herself on always being organized and prepared but feels her job should not take over her personal life. She loves finding helpful teaching methods that are easy to follow and implement into the classroom.

Julie comes to the site to:

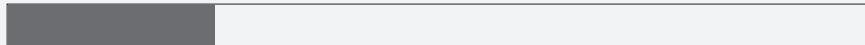
- Research Gail Halvorsen.
- Find content and activities to use in the classroom.
- Find out how to schedule a guest lecturer for her class.

Motivations

Incentive



Fear



Achievement



Growth



Power



Social



The GHAEF wants Julie to:

- Find useful STEM activities related to aviation to use with her classes.
- Share and recommend the website to others.
- Refer students to the website for information and activities.
- Make a donation.

1.2 Secondary Persona: Gentry, The Student



“It’s easier for me to learn when I’m having fun.”

AGE: 10

OCCUPATION: Student

STATUS: Single

LOCATION: Roy, UT

INTERESTS: Baseball, Music, Movies

Athletic

Energetic

Competitive

Bio

Gentry is a 10-year-old 4th grade student from Roy, Utah. He loves school and constantly pushes himself to excel. He is a motivated self-starter who always finishes his work on time. Gentry enjoys playing baseball and hanging out with friends. His competitive nature pushes him to excel and he is determined to beat the academic and athletic achievements of his older siblings. Gentry's favorite subject is science and he loves hands on projects that teach science concepts. He is particularly fascinated with aviation and would like to become an airline pilot like his uncle.

Goals

- Be the top student in his class.
- Be the best baseball player on his team.
- Spend time hanging out with friends.
- Become an airline pilot.
- Stay focused and win!

Motivations

Incentive



Fear



Achievement



Growth



Power



Social



Frustrations

- Not getting the best grades on assignments.
- Losing at anything.
- Not understanding educational concepts.
- Boring homework that is too easy and a waste of his time.

1.3 Secondary Persona: Brent, The City Official



***“Planning and preparation
are essential for success.”***

AGE: 61

OCCUPATION: Businessman/City
Councilman

STATUS: Married

LOCATION: Salem, UT

INTERESTS: Business, Travel, Golf

Humorous

Responsible

Intelligent

Bio

Brent is a 61-year-old businessman and Salem City Councilman. He has served his community in many capacities for over 15 years. Brent is married and loves to spend time with his wife and four daughters. He enjoys both golf and travel and frequently mixes these hobbies with business. Brent owns a large construction company which specializes in commercial buildings. He is a popular member of the Salem City Council and he prioritizes clear and open communication. Brent understands the importance of planning and preparing for the future and he feels the community should be actively engaged in this process.

Goals

- Improve his community through proper planning.
- Create an environment of trust that will encourage communication.
- Develop business relationships that are mutually beneficial.
- Strategically grow his company in a sustainable and consistent manner.

Motivations

Incentive



Fear



Achievement



Growth



Power



Social



Frustrations

- Unclear communication.
- Failure to fulfill responsibilities.
- Disorganization and improper planning.
- Wasting time.

1.4 Strategy Conclusion

Here is how the DGM team anticipates it will appeal to and address the needs and goals of the various user groups:

Educators:

- Include a header or noticeable link that clearly shows where educators can find information relevant to them
- Provide resources that relate to topics teachers are required to teach in the schools (e.g., resources should relate to Utah State Science Core)
- Indicate which Utah State Science Core standards and grade levels correlate to the resources included on the site
- Provide resources (e.g., videos, lesson plans, simulations) that teachers see as valuable and interesting to their students
- Organize information so it's easy for educators to peruse and find relevant information

Students:

- Provide a page where students can find activities and aviation information suited for their needs
- Provide resources such as informational activities as well as recreational activities to excite students about aviation and STEM
- Create a recreational game associated with the Candy Bomber's Story
- Create coloring pages with aviation as the subject

City Officials:

- Provide specific information about The Foundation and their goals to improve the community around them
- Provide updated information about the HQ of Civil Air Patrol and Museum
- Organize information on the upcoming events

2.0 Scope

The Gail S. Halvorsen Aviation Education Foundation is currently raising funds for the Museum/ Civil Air Patrol HQ in Spanish Fork. The creation of this website will initially provide information about the foundation, Gail S Halvorsen and Civil Air Patrol, host resources for educators to use in STEM lessons, and attract youth with activities. It will also host media such as images and videos, and offer the opportunity for the community to donate to the foundation. The table below shows content that will be hosted on each page.

Page	Purpose of Page	Content on the Page
Home Page	This page will be the landing for the site. It will contain the donate button, micro campaign links, and quick access links.	<ul style="list-style-type: none">• Donation Button• Micro Campaign Link• Links to the About, Contribution, and Educators Pages• Info about donations for the CAP HQ and Museum, Mission Statement• Carousel
About Page	Will provide links to the Foundation page, the Gail S Halvorsen page, and the Civil Air Patrol page	<ul style="list-style-type: none">• Link and Image to Foundation Page• Link and Image to Gail S Halvorsen Page• Link and Image to Civil Air Patrol Page
Foundation	This page will contain the information about the foundation and what their purpose is.	<ul style="list-style-type: none">• Foundation Pictures• Foundation History• Foundation Mission• Foundation Board Members (Pictures/ Bios)
Gail S Halvorsen	This page will be the life and legacy of Gail S Halvorsen	<ul style="list-style-type: none">• Images of Gail S Halvorsen• Information about his Early life, Life in the War, Personal Life, Career, and Legacy• Link to Wiggly Wings Website

2.0 Scope Cont.

Page	Purpose of Page	Content on the Page
Civil Air Patrol	This page will include a brief summary of Civil Air Patrol and the connection to the Foundation	<ul style="list-style-type: none">• Civil Air Patrol Summary• Three Missions• Civil Air Patrol and the Foundation• Link to Civil Air Patrol Website
Contributions	This page will list the gold donors, donation information and micro campaigns when available	<ul style="list-style-type: none">• List of Donors• Ways to Donate• Micro Campaigns
Educators	This page is for educator resources.	<ul style="list-style-type: none">• Pdf Lesson Plans• Youth Cookbook Videos• Links to National Museum of the US Air Force, CAP ,• Instructional Activities
Events	The events page will inform the public of upcoming events, their times and locations	<ul style="list-style-type: none">• List of events (Time, Date , Location, Details)• Event Photos
Gail's Story	The Gail's Story page will supply links to Gail's page, the Image Gallery, Videos, and Youth Activity pages	<ul style="list-style-type: none">• Link to Gail's History Page• Link and Image to Images Page• Link and Image to Videos Page• Link and Image to Youth Activities page
Image Gallery	Display Images of Gail S Halvorsen and the Foundation	<ul style="list-style-type: none">• Images of Gail S Halvorsen• Images of the Foundation Progress• Images of Events

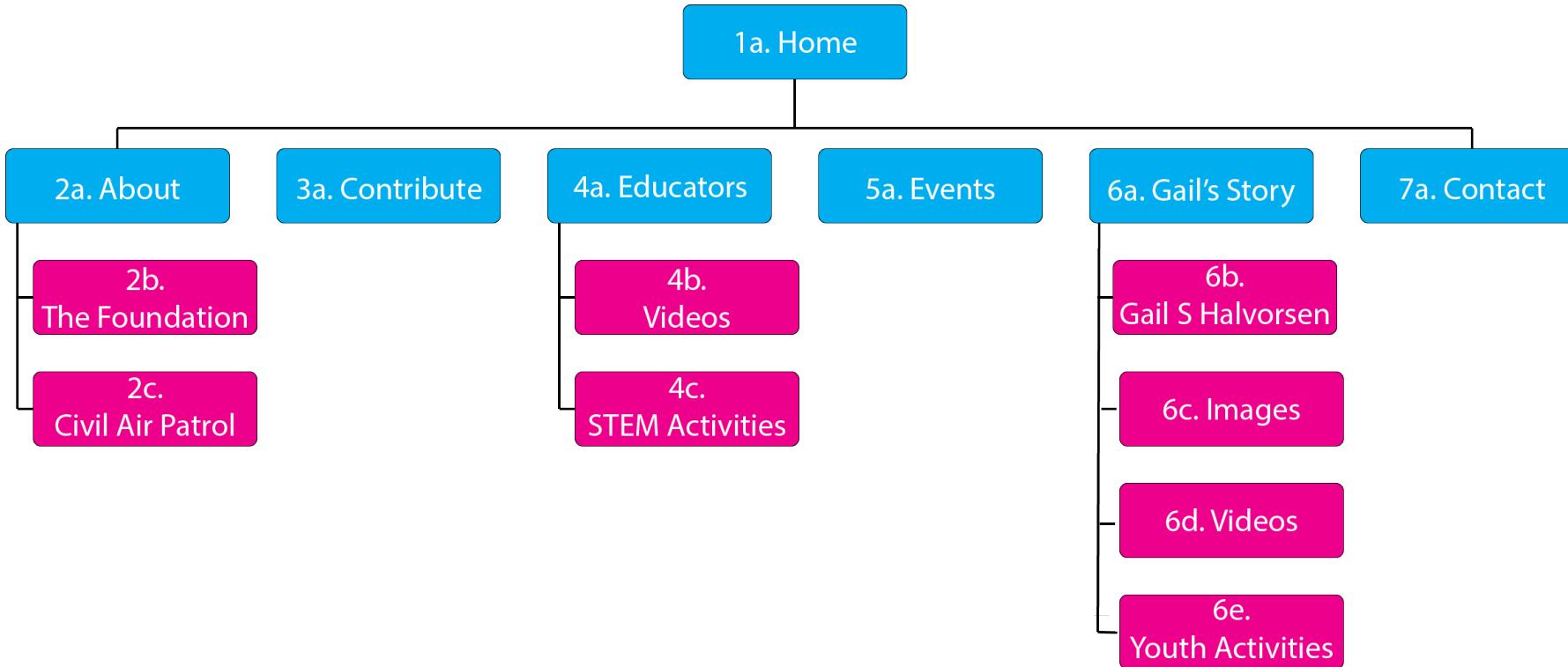
2.0 Scope Cont.

Page	Purpose of Page	Content on the Page
Videos	Display historical videos as well as instructional videos	<ul style="list-style-type: none">• Gail S Halvorsen Videos• Navigation Bar
Youth Activities	To provide activities and educational opportunities to youth	<ul style="list-style-type: none">• Coloring Pages• Game created by Senior Project team• Navigation Bar
Contact	To provide contact information and provide a way for people to contact the foundation	<ul style="list-style-type: none">• Foundation phone number,• Foundation email• Contact form (name, email, and comment box)• Navigaton Bar

In the future, more content could be generated and added such as youth education activities, lesson plans for educators, emergency response information for city officials, and updates of the foundation's progress. The contribution page could contain a scheduling system for volunteers.

3.0 Structure

The following will display the flow and structure of the Gail S Halvorsen Aviation Education Foundation Website



1a. Home

- Carousel
- Navigation Bar
- Quick Links (About, Contribute, Educators)
- Micro Campaign / Donate Button

2a. About

- Navigation Bar
- 3 Quick Links (Foundation, Gail, CAP) w/ short summary

2b. The Foundation

- Banner Image
- About Foundation
- Board Member Bios
- Navigation Bar

2c. Civil Air Patrol

- Banner Image
- Civil Air Patrol Overview
- Foundation/ CAP relation
- Navigation Bar

3a. Contribute

- Banner Image
- List of Donors
- Donation Button
- Micro Campaign Info / Button
- Navigation Bar

4a. Educators

- Navigation Bar
- Link to Videos w/ summary
- Link to STEM w/ summary

4b. Videos

- 7 Aviation Education Cookbook Videos
- Navigation Bar

4c. STEM Activities

- Core Specific Activities listed with image, description, and link
- Pdf Lesson Plans
- Navigation Bar

5a. Events

- Event Title, Description, Date, Location
- 5-7 Aviation Education Cookbook Videos
- Navigation Bar

6a. Gail's Story

- Link to Gail's About Page w/Image
- Link to Video Page w/ Image
- Link to Image Page w/ Image
- Link to Youth Activity Page w/ Image
- Navigation Bar

6b. Gail S Halvorsen

- Banner Image
- Gail S Halvorsen History
- Gail Photos
- Navigation Bar

6c. Images

- 15-20 Images (Foundation/ Gail)
- Navigation Bar

6d. Videos

- 4-5 Videos about Gail
- Navigation Bar

6e. Youth Activities

- 1-2 Coloring Pages
- Candy Drop Game

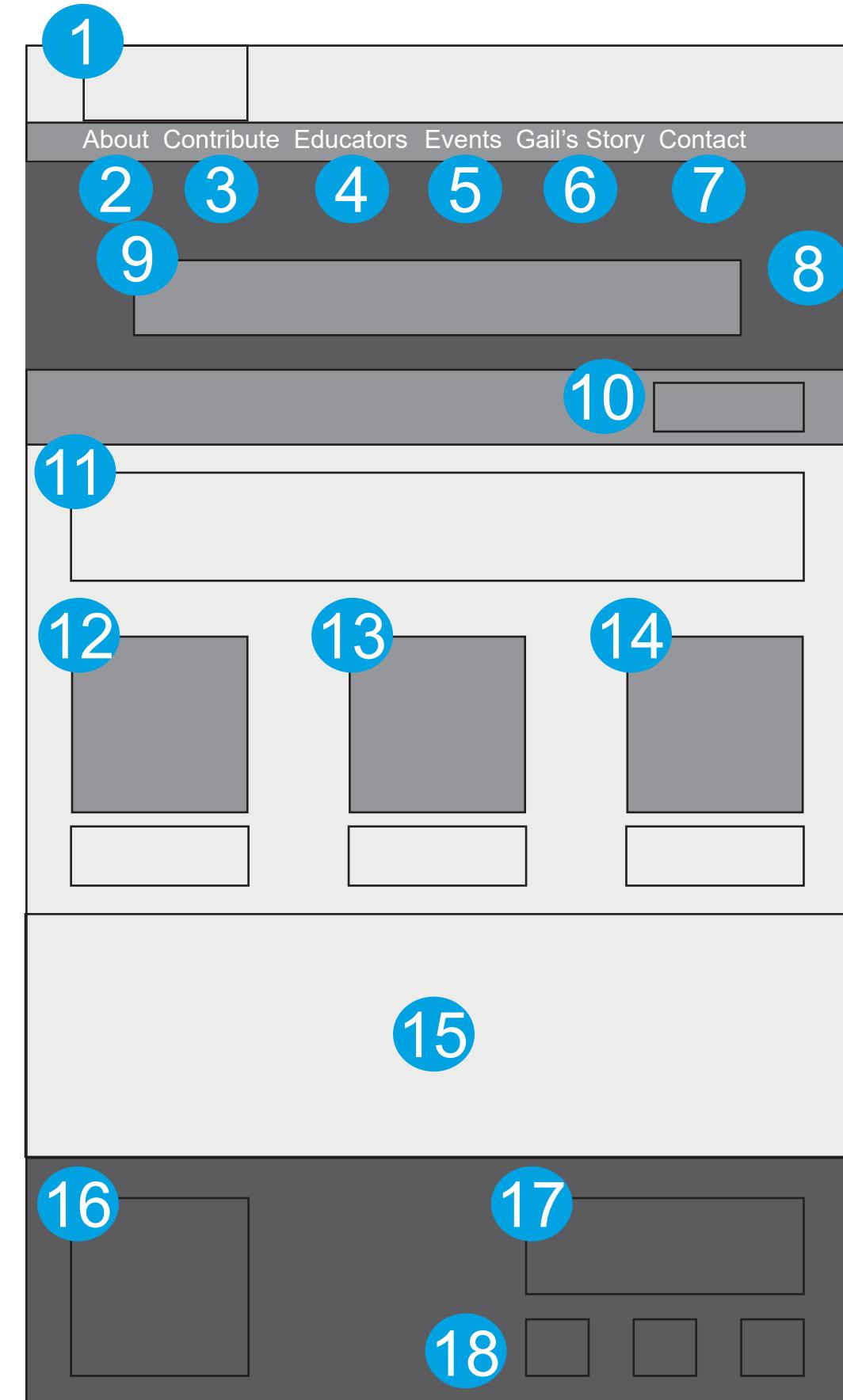
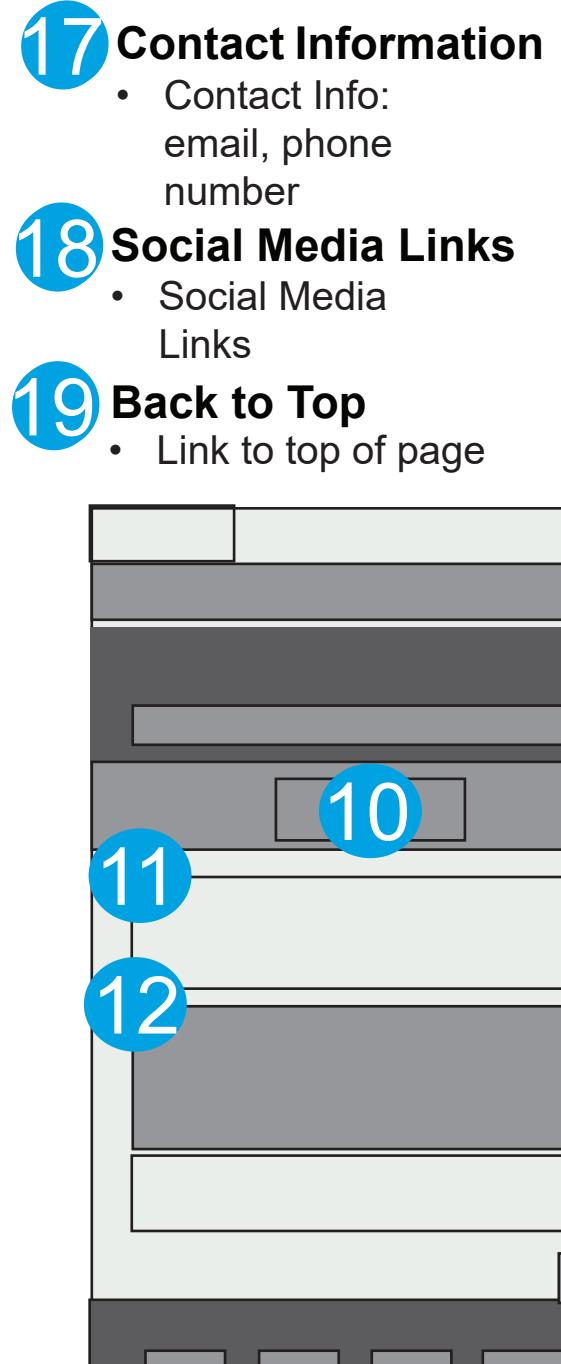
7a. Contact

- Contact Information
- Contact Form (Name, Email, Comment Box)

4.0 Skeleton- 1a. Home

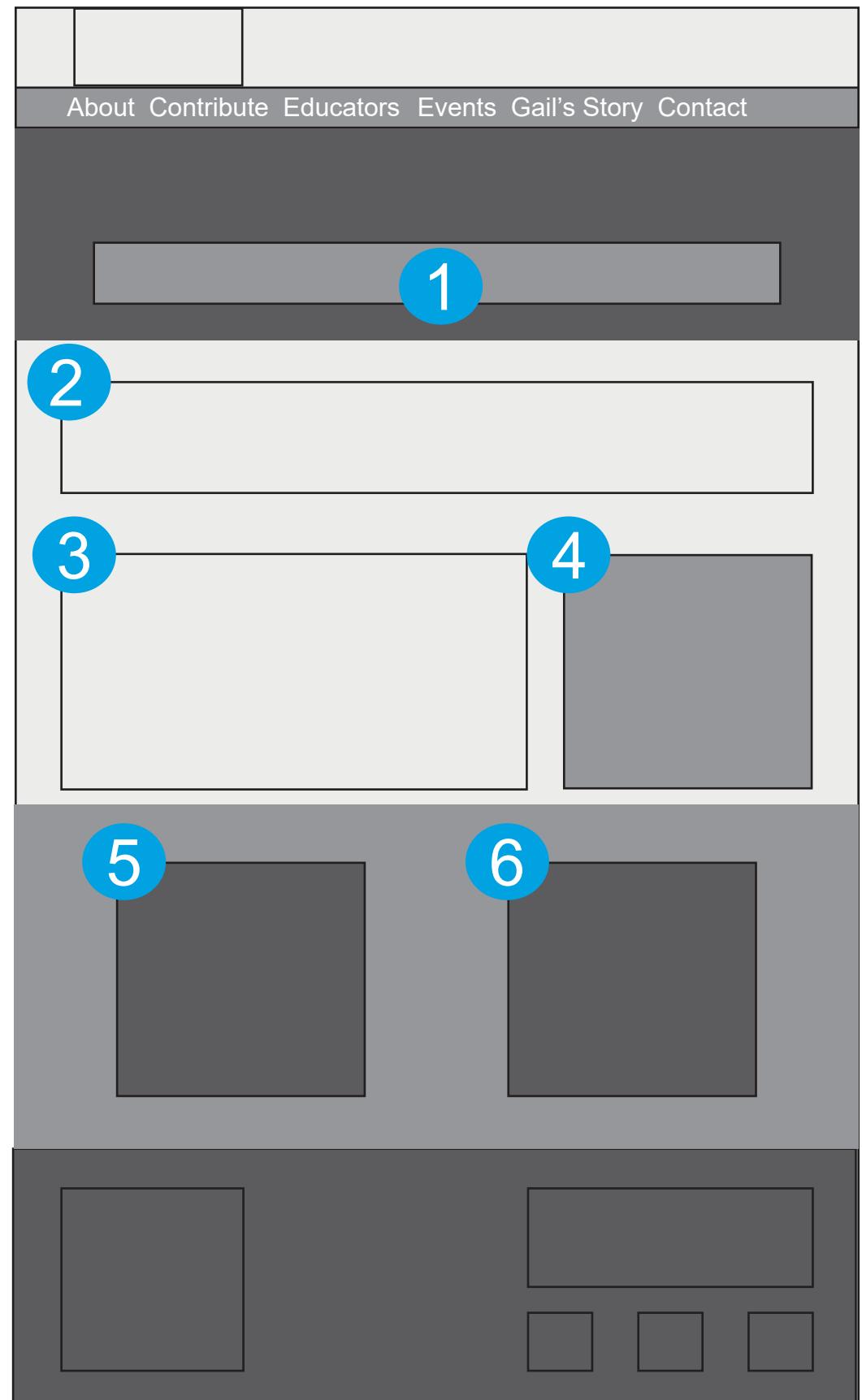
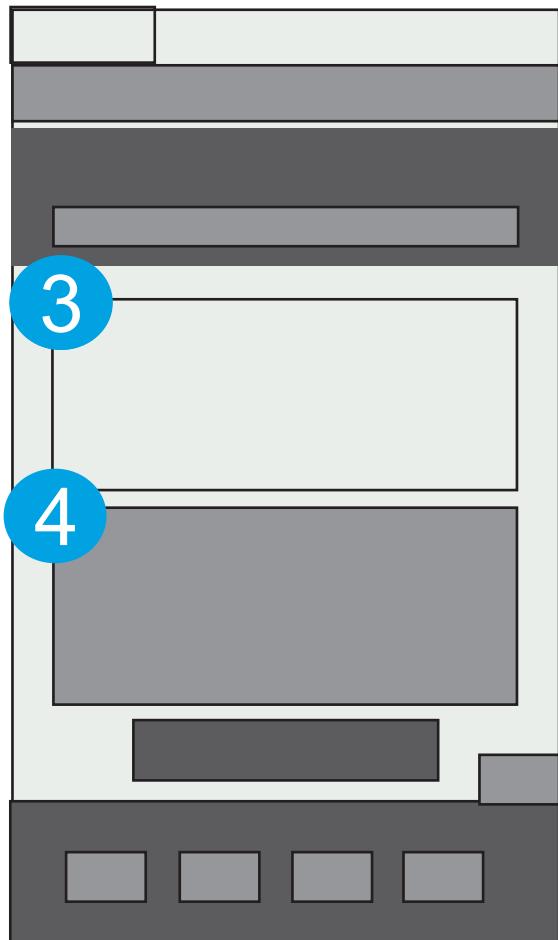
- 1 Logo**
 - The logo on each page will link to Home
- 2 About Link**
 - Link to the About Page
- 3 Contribute Link**
 - Link to the Contribute Page
- 4 Educators Link**
 - Link to the Educators Page
- 5 Events Link**
 - Link to the Events Page
- 6 Gail's Story Link**
 - Link to the Gail's Story Page
- 7 Contact Link**
 - Link to the Contact Page
- 8 Slider**
 - Image
- 9 Call to Action**
 - Slider call to action/ link

- 10 Micro Campaign Link**
 - Current microcampaign Title and Link
- 11 Mission Statement**
 - Mission Statement
- 12 Gail's Story Quick Link**
 - Picture, short description and link
- 13 Contribute Quick Link**
 - Picture, short description and link
- 14 Educators Quick Link**
 - Picture, short description and link
- 15 Donation Area**
 - current goal, how to donate, donation button
- 16 Small Menu**
 - Quick menu links to the seven pages



4.0 Skeleton- 2a. About

- 1 Title**
 - Page Title
- 2 Heading/ Mission Statement**
 - Introduction, Mission Statement
- 3 Text Area**
 - Short information area
- 4 Image**
- 5 Foundation Link**
 - Image, short summary and link
- 6 Civil Air Patrol Link**
 - Image, short summary and link



4.0 Skeleton- 2b. Foundation

1 Text Area

- Overview of the Foundation

2 Image

3 Board Member Header

- New Section Header

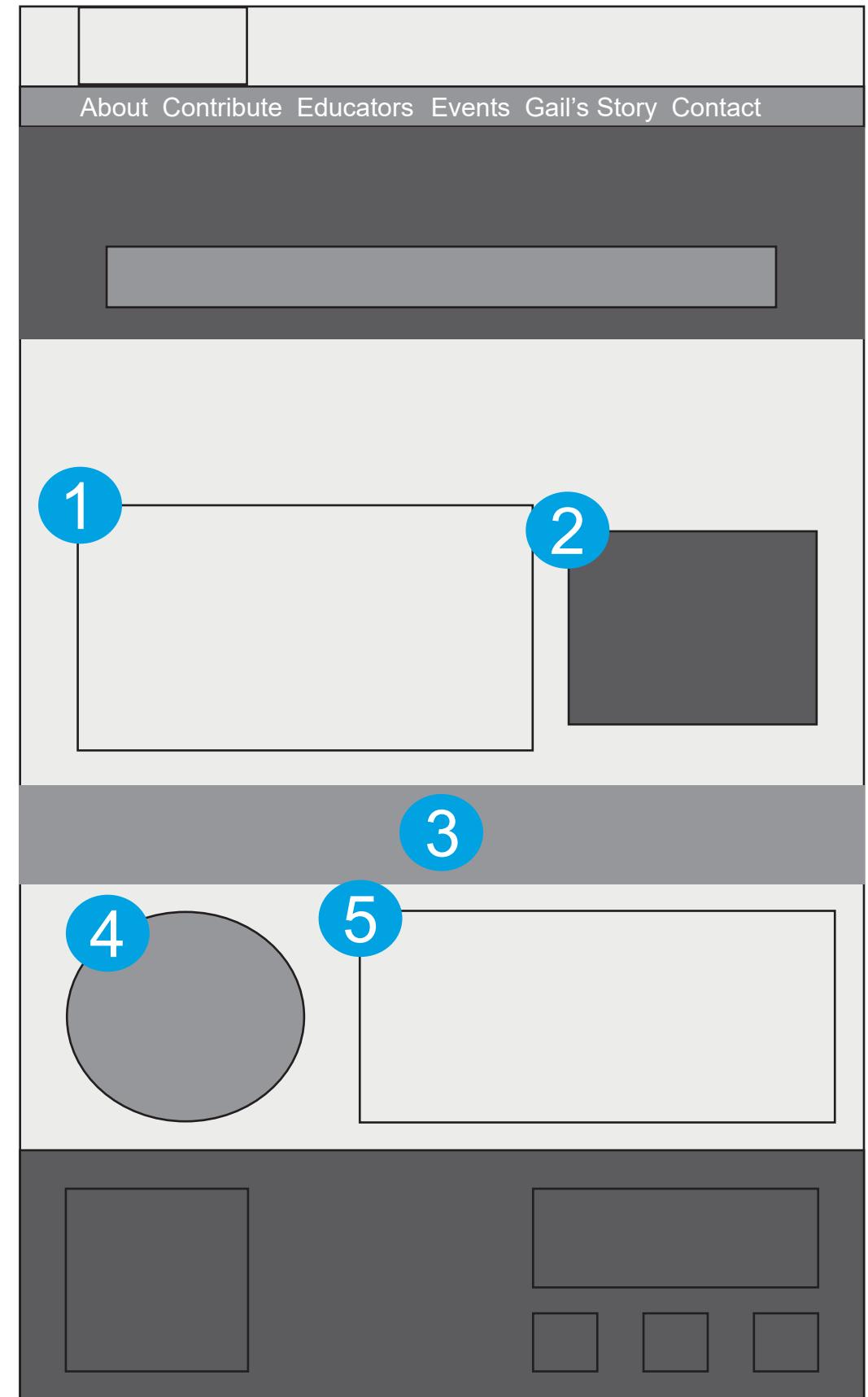
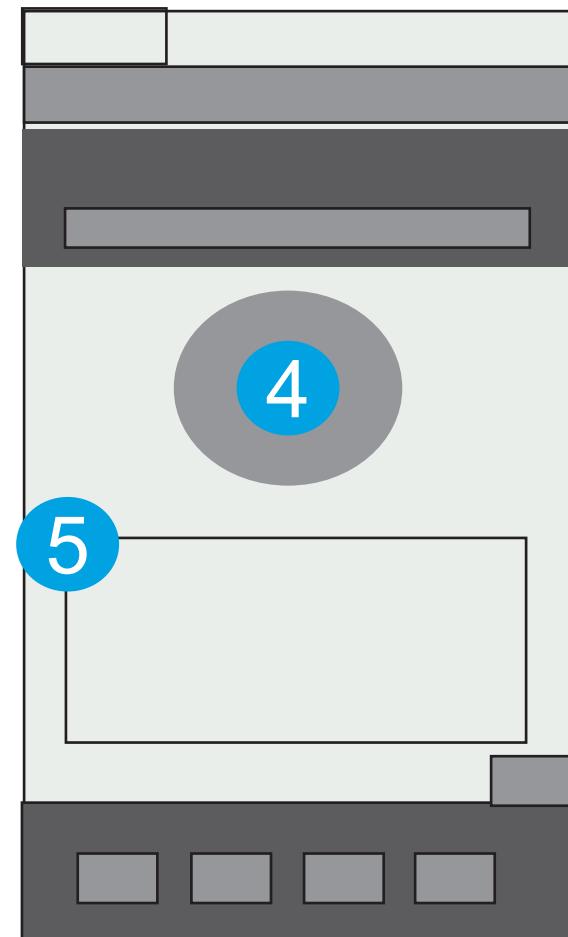
4 Board Member Photo

- Board member profile photo

5 Board Member Bio

- Board Member Biography

** Other pages that will have a similar look and feel include: Gail's Story Page and Civil Air Patrol Page



4.0 Skeleton- 3a. Contribute

1 List of Donors

- Thank you, donor logos

2 Section Header

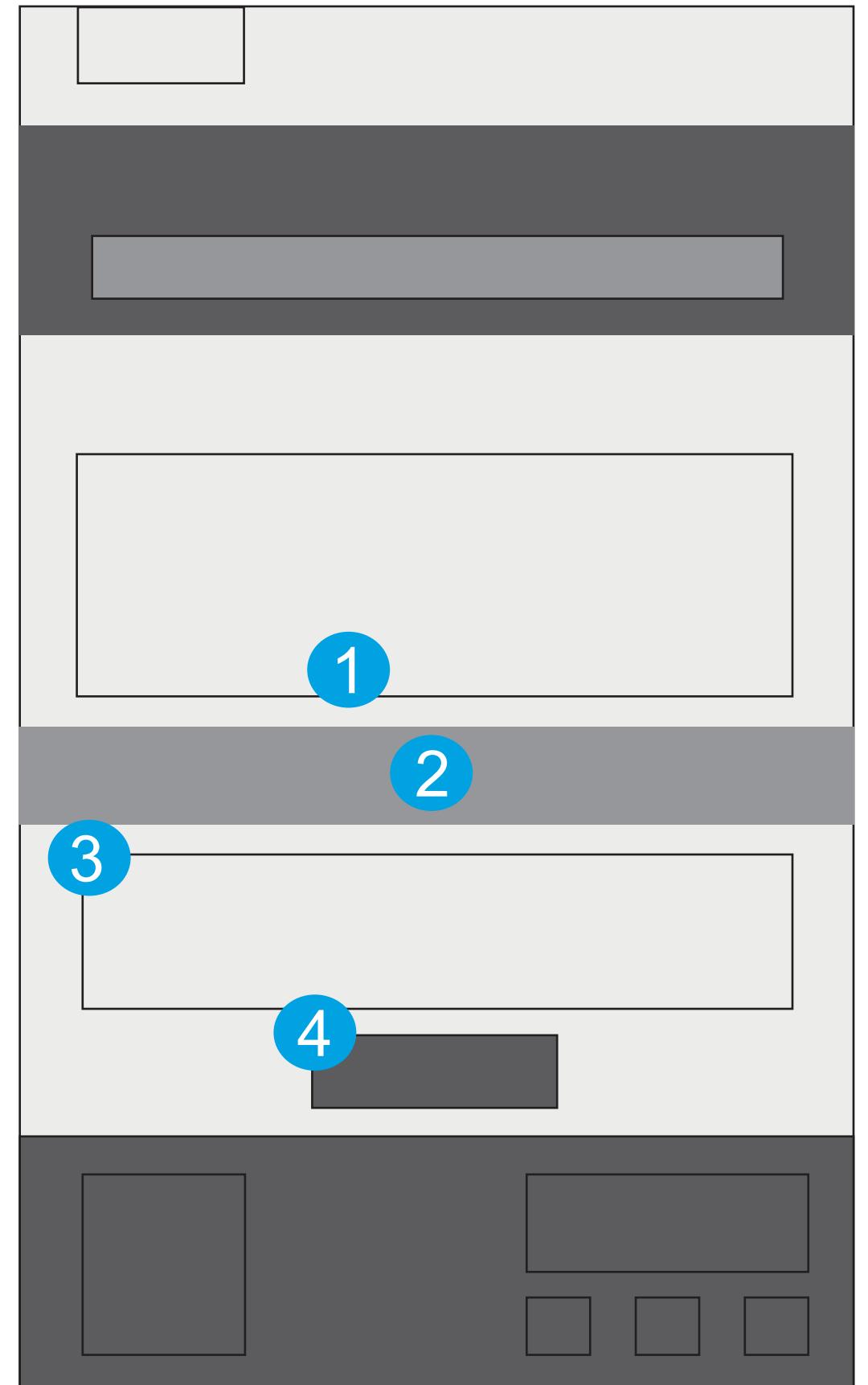
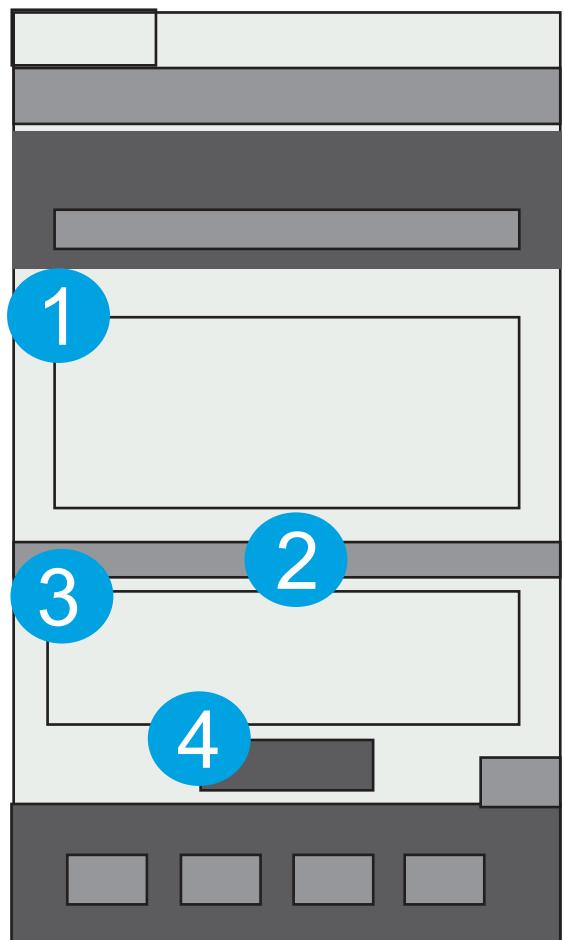
- Micro Campaign Title

3 Micro Campaign

- Microcampaign Information/
Image if desired

4 Donation Button

- Microcampaign donate button



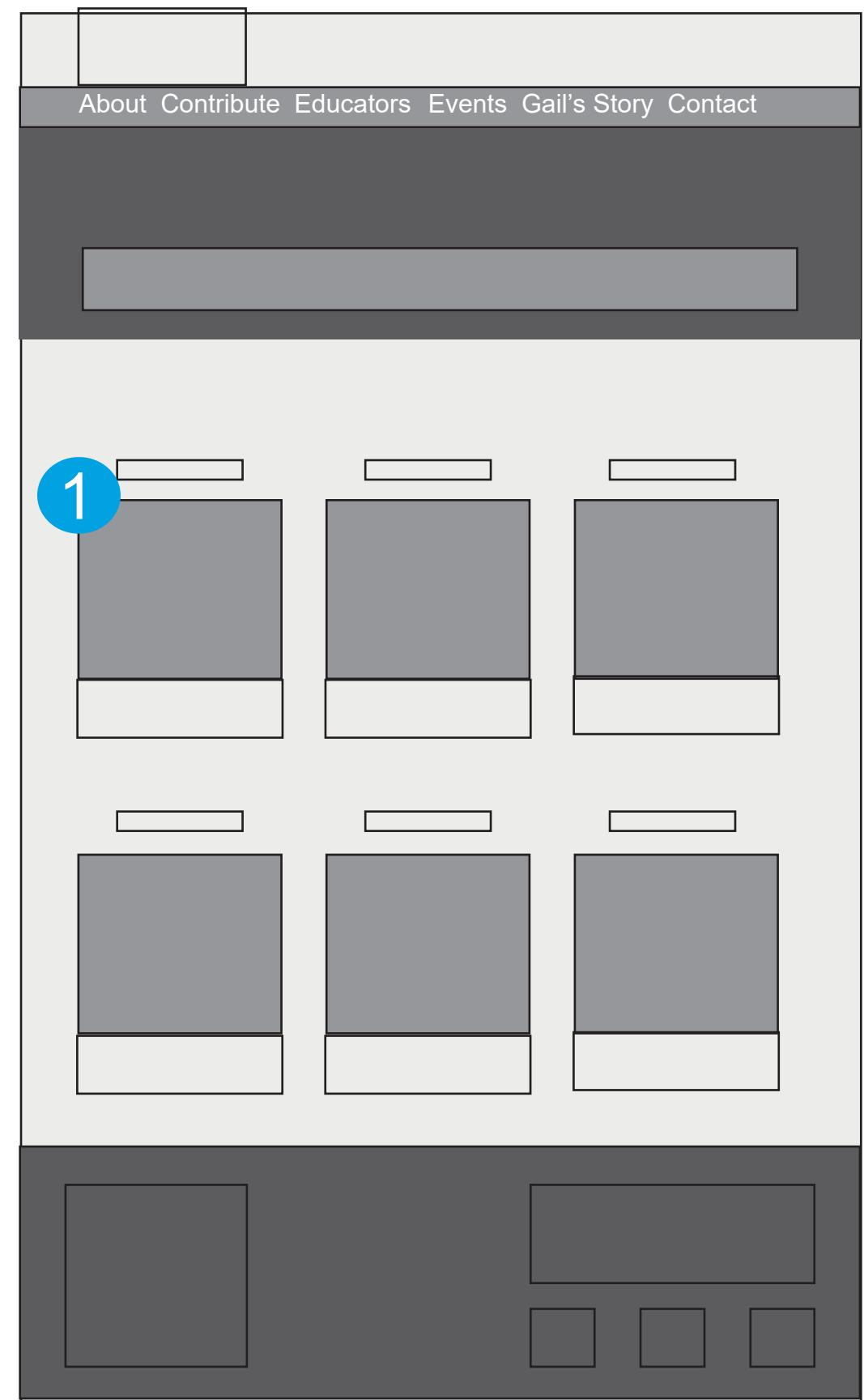
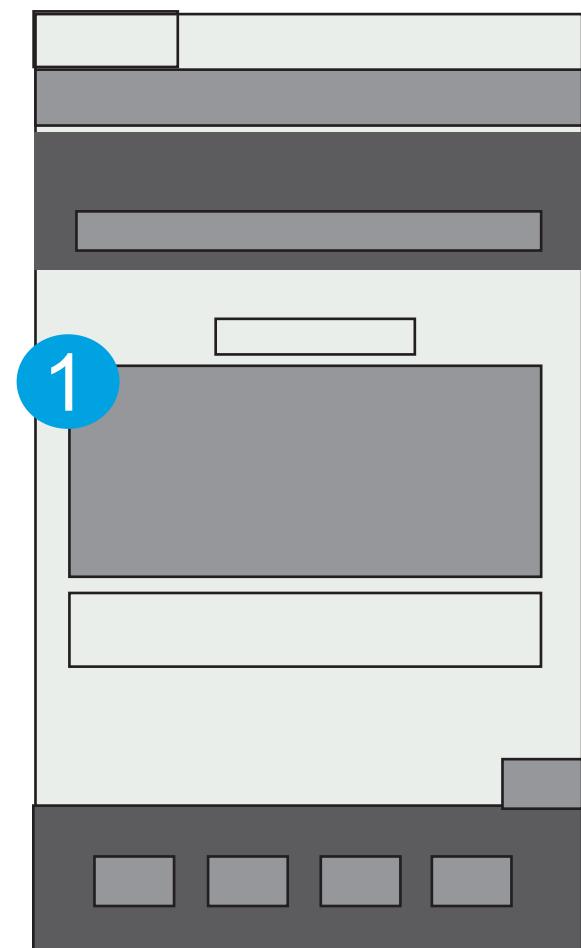
4.0 Skeleton- 4b. Videos

1

Video

- Video title, screenshot, summary, pdf lesson plan, link

** Other pages that will have a similar look and feel include: Image Gallery, Gail's Story Videos

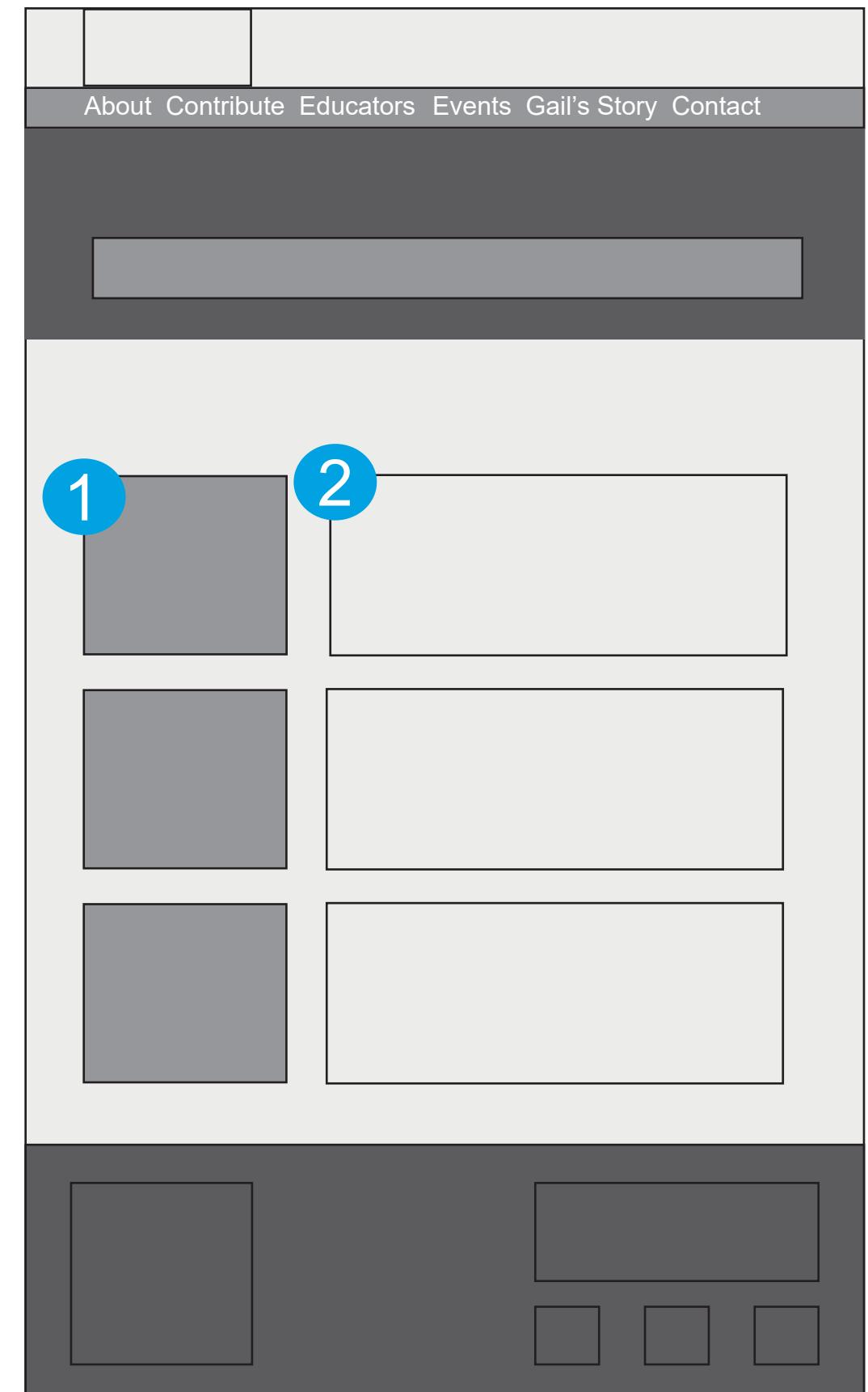
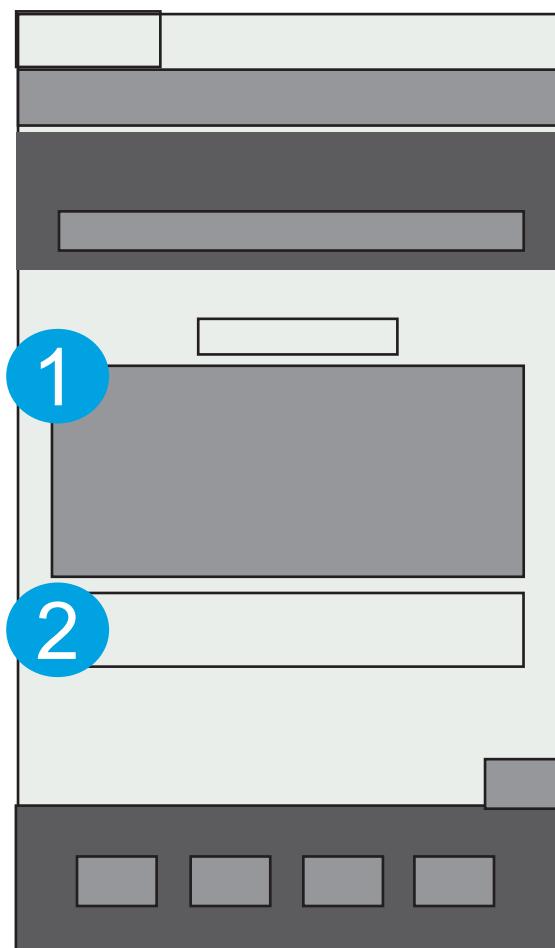


4.0 Skeleton- 4c. STEM

1 Lesson Image

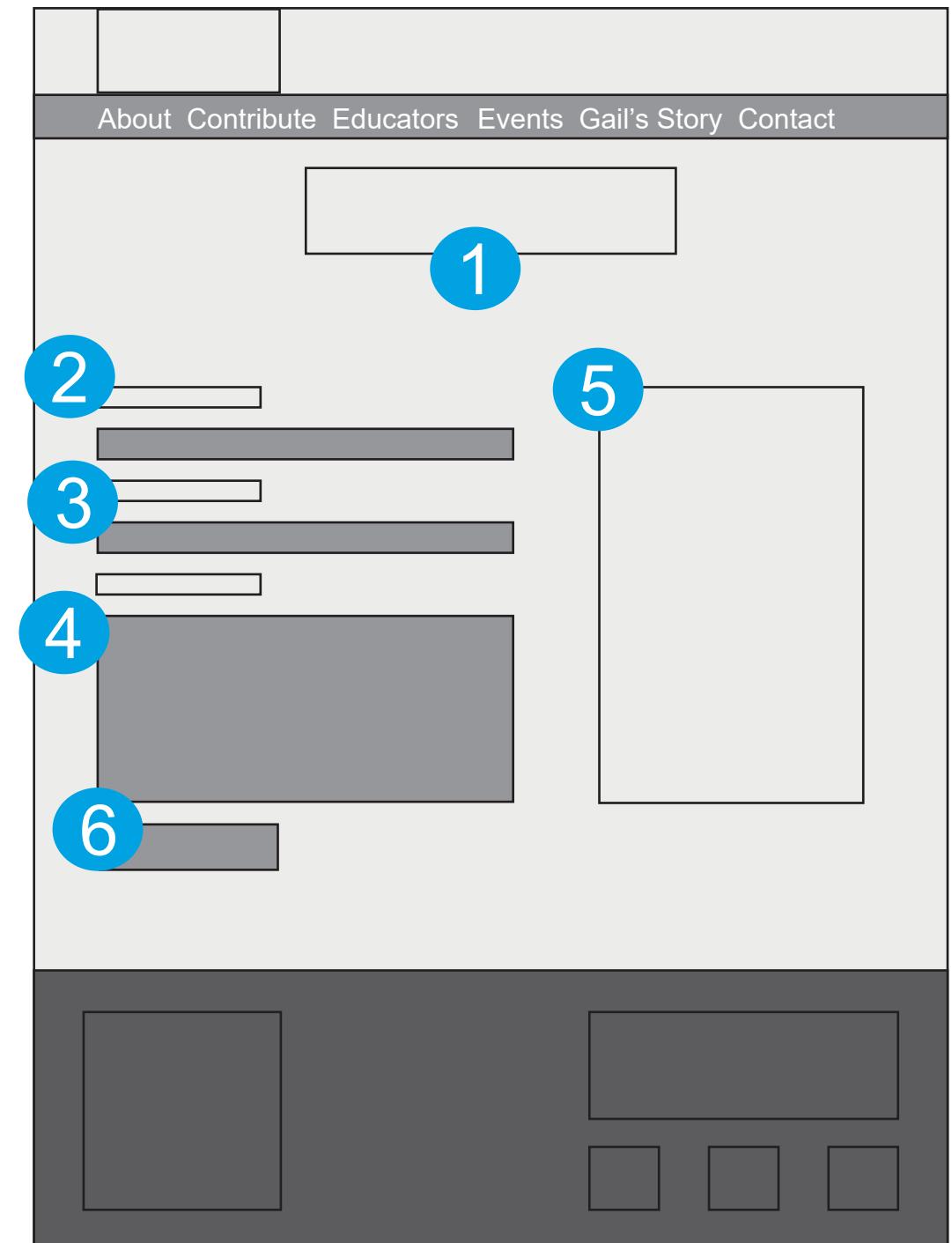
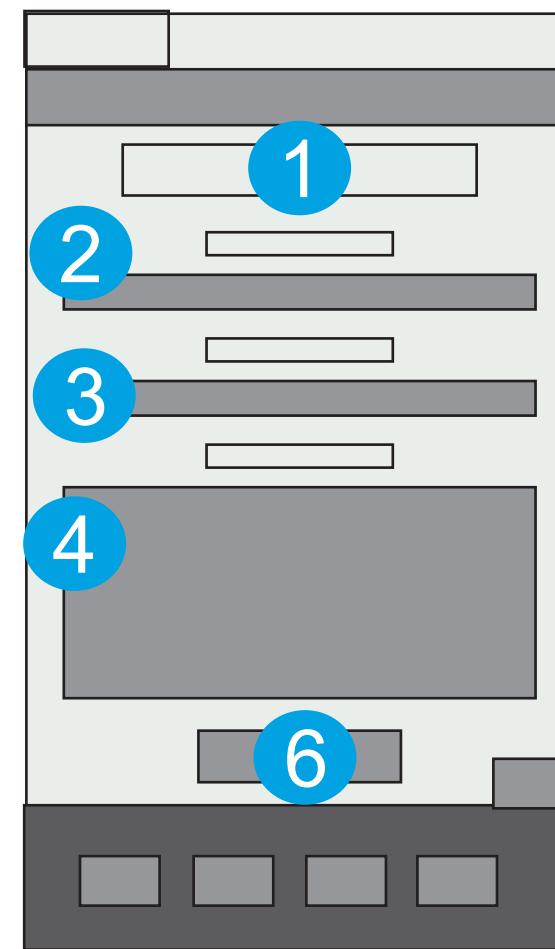
2 Lesson Details :

- Title, description, grade core level, download/link



4.0 Skeleton- 7a. Contact

- 1 Title
- 2 Name Field
- 3 Email Field
- 4 Comment Field
- 5 Contact Information
 - Phone, Email, location (once built)
- 6 Submit Button



5.0 Surface

Motif: The website will be content heavy including pictures and videos. Those images and videos provide the majority of the content and the DGM team wants to keep them as the center piece of the website. To ensure that this particular goal is accomplished, the text layout of website will be simple, and grid structured as to not distract from the images and videos.

Color Scheme: Blue will be incorporated to demonstrate the association with aviation. The blue we chose is the blue in the Foundation's logo. The background color will be white, with black as an accent color and font color to increase readability. Grey will be used for main titles.

Light Blue



White



Grey



Black



HEX: #269dd8

R: 39

G: 157

B: 216

C: 73

M: 23

Y: 0

K: 0

HEX: #ffffff

R: 255

G: 255

B: 255

C: 0

M: 0

Y: 0

K: 0

HEX: #3c3c3c

R: 61

G: 60

B: 61

C: 68

M: 62

Y: 60

K: 50

HEX: #000000

R: 0

G: 0

B: 0

C: 0

M: 0

Y: 0

K: 100

Fonts: The DGM Team chose variations of Segoe UI for the website.

Main Headers

44 pt Bold

Sub Titles

30 pt Bold

Text

20 pt Regular

5.1 Surface Treatments

This section will give an example of the look and feel of the website. The DGM Team will use Adobe XD to surface treat the wireframes.

Home:

GAIL S. HALVORSEN THE CANDY BOMBER AVIATION EDUCATION CENTER

ABOUT CONTRIBUTE EDUCATORS EVENTS GAIL'S STORY CONTACT

Gail S. Halvorsen Aviation Education Foundation

VIEW GAIL'S STORY

Want to contribute to the Foundation? BUY A BRICK

Our Mission

The Gail S. Halvorsen Aviation Education Foundation advances aviation education, promotes youth leadership development, enhances community capacity for emergency response, and encourages humanitarian service on macro- and micro-levels.

Gail's Story

The Gail S. Halvorsen Aviation Education Foundation was formed in 2016 by a group of community-minded volunteers who seek to perpetuate the great legacy of The Candy Bomber story.

Support

We are grateful to all of those who donate to the foundation. Visit our support page for more information on our sponsors and how to donate to the foundation.

Education

The Gail S. Halvorsen Aviation Education Foundation was formed in 2016 by a group of community-minded volunteers who seek to perpetuate the great legacy of The Candy Bomber story.

Utah Civil Air Patrol & Future Exhibit

The proposed Gail S. Halvorsen Aviation Education Center at the Spanish Fork – Springville Airport will exhibit and archive Gail Halverson's personal photographs documents and memorabilia. It will also serve as the South Utah County Headquarters for the Civil Air Patrol. The proposed Gail S. Halvorsen Aviation Education Center at the Spanish Fork – Springville Airport will exhibit and archive Gail Halverson's personal photographs documents and memorabilia. It will also serve as the South Utah County Headquarters for the Civil Air Patrol.

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Contribute

We are grateful to all of those who donate to the foundation. Visit our support page for more information on our sponsors and how to donate to the foundation.

5.1 Surface Treatments

STEM Activities:

The screenshot shows a section titled "STEM Activities" with a sub-section for "K-3". It features a black and white photo of a group of children and a smiling man in a military uniform. Below the photo is a blue button labeled "STEM Activities". Underneath the button, there are three categories: "K-3", "4-8", and "9-12". Each category has a "Lesson Plan Title" link. The "K-3" section includes a photo of a man standing next to a white van, a "VIEW LESSON" button, and a "Lesson Plan Title" link. The "4-8" section includes a photo of a group of children, a "VIEW LESSON" button, and a "Lesson Plan Title" link.

Educator Videos:

The screenshot shows a section titled "Education Videos" with a sub-section for "K-3". It features a black and white photo of a group of children and a smiling man in a military uniform. Below the photo is a blue button labeled "Education Videos". Underneath the button, there are three categories: "K-3", "Aviation Cookbook Videos", and "4-8". The "Aviation Cookbook Videos" section includes a photo of a man in a military uniform, a "VIEW VIDEO" button, and a "Description of video" link. It also lists three video titles: "ATMOSPHERIC PRESSURE", "BERNOULLI STRAW", and "FLYING COFFEE CUP". Each title has a "VIEW VIDEO" button. The "4-8" section includes a photo of a group of children, a "VIEW VIDEO" button, and a "Description of video" link. It also lists three video titles: "FUNNY FUNNEL", "PAPER AIRFOIL", and "POTATO GUN". Each title has a "VIEW VIDEO" button. At the bottom is a "STRAW GLIDER" section with a "VIEW VIDEO" button.

Foundation:

The screenshot shows a section titled "Board Members" featuring a photo of a group of people cheering with a plane in the background. Below the photo is a blue button labeled "Board Members". Underneath the button, there are five board members listed with their photos and brief descriptions:

- Dr. Jim Stewart**: Jim is the Executive Director of the Foundation. He attended Brigham Young University studying business management and microbiology prior to attending medical school at A.T. Still University in Missouri.
- Colonel Gail S. Halvorsen**: Gail is the Honorary Director of the Foundation. He was born in Salt Lake City, Utah, and grew up on small farms in Utah and Idaho. He earned a private pilot license under the non-college Civilian Pilot Training Program in September 1941. Almost concurrently Gail joined the Civil Air Patrol as a pilot.
- Paul Jensen**: Paul is the Assistant Executive Director of the Foundation. He attended Brigham Young University earning a Bachelor degree in Business and Finance. He has owned his own businesses since 1975 in retail sales, computers, and marketing. Paul is a Commercial Pilot, and is a volunteer in the Civil Air Patrol serving as a Search & Rescue Pilot and Operations Officer. He and his late wife, Alta Jolley of Zion National Park, have five children, 24 grandchildren, and over 30 great-grandchildren.
- Becca Baggaley**: Becca serves as the Secretary of the Foundation and is a community representative on the Board. She is a single mom to six animals and marvelously busy, ranging in age from 15 to 3 years old. She is a professional photographer for 20 years now and a professional graphic designer with 4 years of experience. She is co-owner of The Photo Shop in Spanish Fork. She is currently attending Weber State University. She has a passion for sleeping, reading, music, and all things Gaelic - but when given an option - sleep usually wins...
- Edward S. Hunt, CPA**: Eddie is the Treasurer of the Foundation. Eddie hails from Pocatello, Idaho. He came to Provo to attend Brigham Young University, where he earned a Bachelor of Science degree in Accounting at the Marriott School of Business. Upon graduation, he remained in Provo and founded his accountancy practice: Edward S. Hunt, CPA. He enjoys restoring cars and bicycles, to include an on-going effort to maintain his first car - a 1955 Chevrolet Bel Air - in prime condition. He and his wife, Celi, have four children and four grandchildren.

The screenshot shows a section titled "Overview" with a photo of a group of children cheering with a plane in the background. Below the photo is a blue button labeled "The Foundation". Underneath the button, there is a "Description of video" link. The page continues with text about the foundation's mission and activities, followed by sections for "The Board Members" and "Dr. Jim Stewart".

The Gail S. Halvorsen Aviation Education Foundation was formed in 2016 by a group of community-minded volunteers who seek to perpetuate the great legacy of The Candy Bomber story. The Foundation advances aviation education, promotes youth leadership development, enhances community capacity for emergency response, and encourages humanitarian service on macro- and micro-levels.

We provide education by giving free lectures and multimedia presentations on aviation, science, technology, engineering, and mathematics (STEM) topics at local schools, community groups, and at our own facility at the Spanish Fork-Springville Airport. Further, we partner with like-minded organizations that are engaged in community service activities which support the Foundation's objectives.

The Gail S. Halvorsen Aviation Education Foundation is incorporated in the State of Utah as a charitable educational organization and is licensed by the Utah Department of Commerce to solicit charitable donations. The

The Board Members

Dr. Jim Stewart

The Gail S. Halvorsen Aviation

PROJECT PLAN

- 6.0 Workflow
- 7.0 Cost Breakdown
- 8.0 Risk Assessment
- 9.0 Change Form
- 10.0 Project Sign Off

6.0 Workflow

To better organize the workflow of the project, the DGM team used Gantter for Google Drive. The projected tasks and milestones of the project are listed along with the start/finish date, the duration , and the team member that will be working on that task.

	Project Name	Gail S Halvorsen Aviation Education Foundation Web Project				
		Name	Duration	Start	Finish	Resources
1		Launch Gail S Halvorsen Web Project	137days?	09/06/2017	03/26/2018	
2		Project Initiation	34days	09/06/2017	10/23/2017	
3	✓	Prepare for kick-off Meeting	2days	09/06/2017	09/07/2017	Morgan,Michael
4		Prepare Proposal	13days	09/08/2017	09/26/2017	Morgan
5		Edits to the Proposal	12days	09/27/2017	10/12/2017	Morgan
6		Client Review of Proposal	7days	10/13/2017	10/23/2017	Gary,Jim
7	✓	Proposal Sign Off	0day	10/23/2017	10/23/2017	
8	✓	Design & Planning	33days?	10/24/2017	12/12/2017	
9	✓	Conduct Audience Research	2days	10/24/2017	10/25/2017	Michael,Jada
10	✓	Research of Similar Websites for Content Ideas	1day	10/26/2017	10/26/2017	Morgan[25%],Jada
11	✓	Sketch Note the Site	10days	10/27/2017	11/09/2017	Michael[50%]
12	✓	Sketch new functions (Games, Pages , Etc)	7days?	11/10/2017	11/20/2017	Michael[50%],Morgan
13	✓	Prepare Design Document	8days	11/21/2017	12/05/2017	Morgan
14	✓	Client Review of Design Document	3days	12/06/2017	12/08/2017	Trudy,Jim,Gary
15	✓	Revise Design Document	2days	12/11/2017	12/12/2017	Morgan
16	✓	Design Sign Off	0day	12/12/2017	12/12/2017	Jim,Gary
17		Development	60days?	12/13/2017	03/12/2018	
18	✗	Develop Wireframes and Surface Treatments	4.67days	12/13/2017	12/19/2017	Michael,Morgan[50%]
19	✓	Wireframes of Games and Pages	8days?	12/19/2017	01/03/2018	Jada[25%],Eric
20	✓	Client Sign Off on Surface Treatments	0day	01/03/2018	01/03/2018	Jim,Gary
21	✓	Create HTML Template	7days	01/03/2018	01/12/2018	Word Press Widg
22	✓	Create HTML Landing Page (For Quick Release)	4days	01/12/2018	01/18/2018	Michael
23	✓	Insert Home Page Content	1day	01/18/2018	01/19/2018	Morgan
24	✓	Client Review	3days	01/19/2018	01/24/2018	Jim,Gary
25	✓	Make Revisions	1.33days	01/24/2018	01/26/2018	Morgan[50%],Michael
26	✓	Client Sign off on Landing Page	0day	01/26/2018	01/26/2018	Jim,Gary
27	✓	CMS Integration	5days	01/26/2018	02/02/2018	Michael[50%],Morgan
28	✓	Launch Home Page (Delivery)	0day	02/02/2018	02/02/2018	
29	✓	Create Additional Pages	7days	02/02/2018	02/13/2018	Morgan[50%],Michael
30	✓	Create Additional Content(Games, Pages, etc)	5days?	02/13/2018	02/20/2018	Michael[50%],Eric
31	✓	Client Review	3days	02/20/2018	02/23/2018	
32	✓	Make Revisions	6days	02/23/2018	03/05/2018	Morgan
33	✓	CMS Integration	5days	03/05/2018	03/12/2018	Michael
34	✓	Beta Release	0day	03/12/2018	03/12/2018	
35		Testing & Delivery	10days?	03/12/2018	03/26/2018	
36		Conduct Responsive Tests (Browser, Devices)	3days	03/12/2018	03/15/2018	Michael,Morgan,Eric
37	✓	Make Revisions	2days	03/15/2018	03/19/2018	Morgan
38	✓	Functionality (Search, Payment System)	3days	03/19/2018	03/22/2018	Michael
39	✓	Launch Live Site	0day	03/22/2018	03/22/2018	
40	✓	Training and Support	2days?	03/22/2018	03/26/2018	Jada,Morgan
41	✗	Project Sign Off	0day?	03/26/2018	03/26/2018	

7.0 Cost Breakdown

The budget estimate is as follows with the student fee billed at (\$20hr). A complete report will be included in the Appendix.

Phase	Cost
Project Initiation	\$4,640
Design & Planning	\$4,320
Development	\$11,450
Testing & Delivery	\$2,880
Total	\$23,290

8.0 Risk Assessment

The purpose of this section is to identify the possible problems or client requests that may arise during development which could affect the budget and the schedule. Contingencies plans are also listed for the major risks identified below.

8.1 Dependencies

- Client provides access to appropriate and adequate content to be included on site
- Client provides access to WordPress and Dreamhost account
- Client and Advisors provide feedback and sign offs for deadlines

8.2 Technical Risks

- Wordpress Integration, bugs
- Data Loss
- Game Performance across browsers

8.3 Contingencies

- Backup Data on a Repository
- Research of Online Game Performance
- Availability of team members for quick fixes
- Repository branches will be created as to not overwrite each other's work

9.0 Change Form

If the client has a request for change, they will fill out the following form with the request and details. The student that is taking care of the change will sign off the form with the changes that will be made.

Submission Information (Client)		Response Information (Project Manager)	
Project:		Responder's Name:	
Priority:	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Request Date:		Response Date:	
Request Number:		Possible Solutions	
Request Description:		Impact Analysis	
Justification:		Scope:	
		Resources:	
		Cost:	
		Schedule:	
		Recommendation:	
Authorization			
Status:	<input type="checkbox"/> Approved	<input type="checkbox"/> On Hold	<input type="checkbox"/> Denied

10.0 Project Sign Off

This document has been reviewed and it is decided that the requirements have been identified and will fit the client's project criteria.

Team Signatures:

Morgan Hansen Date
Project Manager, Web Developer

Michael Cowley Date
Web Developer

Jada Scott Date
Web Developer

Eric Morris Date
Web Developer

Client Approval:

Gary Rogers Date

James Stewart Date

DGM Advisor Approval:

Trudy Christensen Date
Digital Media Associate Professor

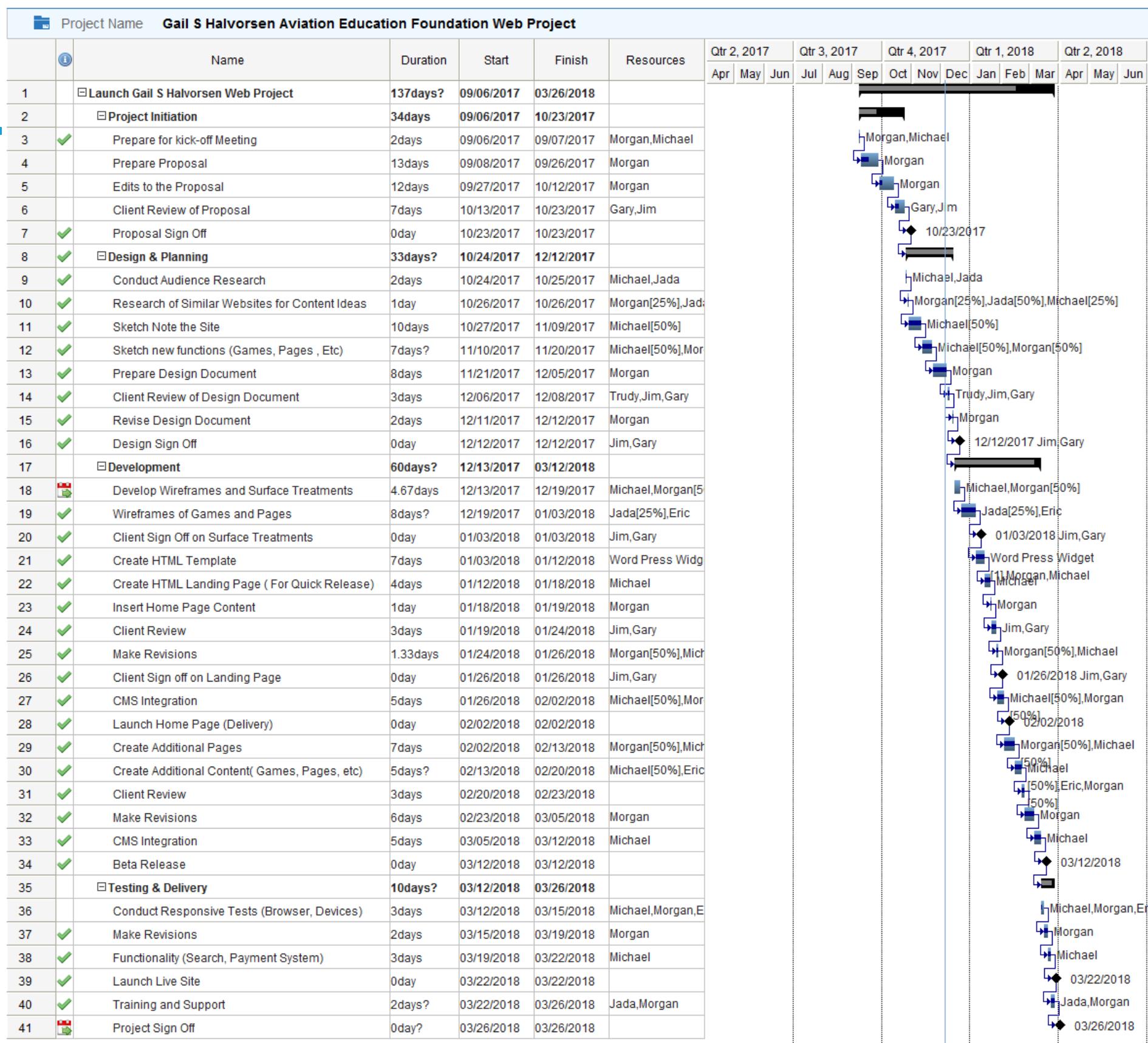
Daniel Hatch Date
Project Mentor

Appendix

Gantt Chart
Game Visuals
Game Document

Gantt Chart

The Gantt chart shows the tasks, milestones, duration of tasks, start and finish date and the team member who will be working on each task. The graph gives a visual of the timeframe in quarters. The DGM team projects to be finished with this project no later than April 13th, 2018.



Candy Bomber Game

1.0 Description

The Candy Bomber game will be HTML5 Canvas web based game that will add to the ‘cool factor’ of the website. It will be mostly entertainment based. The game will allow to player to fly the Candy Bomber airplane and drop candy to children below while avoiding other aircraft on its way. The objective of the player will be to avoid colliding with other aircraft while successfully dropping candy to children below. Scores will be a combination of successfully delivered candy plus the length of time which the player has survived.



2.0 Description

The game will target people of most any age old enough to properly handle a computer but the primary persona would be youth who might be interested in aviation. Kids and adults alike should be able to easily grasp the concept of the game. The game will meet ESRB standards for “Everyone” and the game’s content will be generally suitable for all ages.

Candy Bomber Game

3.0 Mechanics

Candy/Projectiles: The game may develop more projectiles during development but is currently intended to only allow the player to drop candy to the children. Candy will fall at a relative rate to which the plane is moving over the ground. The player will initiate a drop by clicking with the mouse or keyboard. Different types of candies will be randomly assigned that may have different properties that effect the rate at which they fall, such as a parachute.

Collision: The game will monitor for the collision of aircraft and other air crafts, as well as candy that arrives to children.

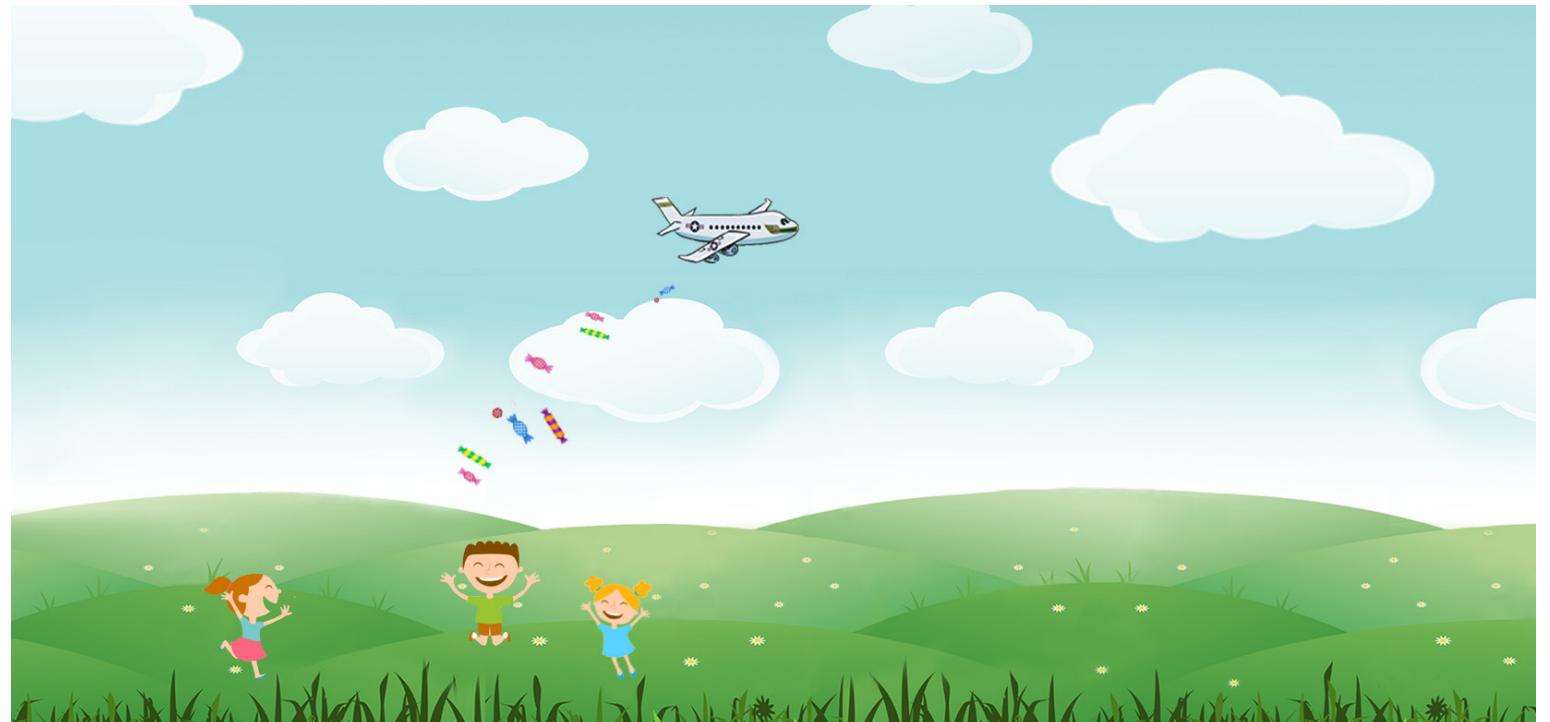
Mobility: The game will be played using the mouse which will control the movement of the aircraft via the location of the mouse. The plane will fly to the position of the mouse at varying speeds depending on the distance of the location of the mouse. The aircraft will consistently fly over the ground at a fixed rate as the ground scrolls below. The aircraft will have the ability to move backwards or forwards over the space visible on the screen.



Candy Bomber Game

4.0 Visuals

The game is intended to have a cartoony like look. The airplane its self will be modeled after the one flown by Halvorsen. Visuals will consist of things such as an infinite bordered background and landscape. Other aircraft, candy and children will also be included as core parts of the game.



5.0 Technical Requirements

Computer Requirements:

- A web browser capable of processing HTML5 Canvas.
- Should function on most every modern computer with an up-to-date browser.