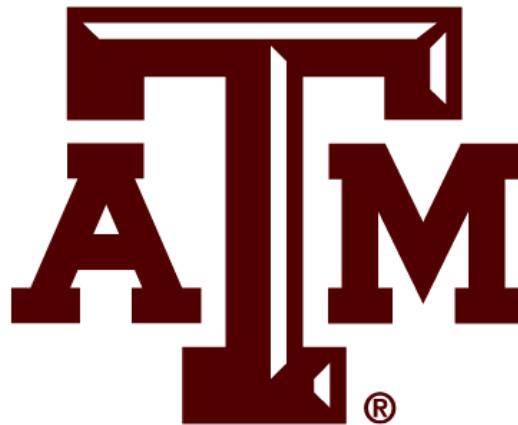


# **Butterfly Effect: Human-Computer Interaction Project**



*Initial Design Concept*

## **Team 26**

Project Manager:

Ryan Clark

Team Members:

Donald Hacker

Nicholas Cashiola

Department of Computer Science and Engineering

Texas A&M University

11/1/2019

## Table of Contents

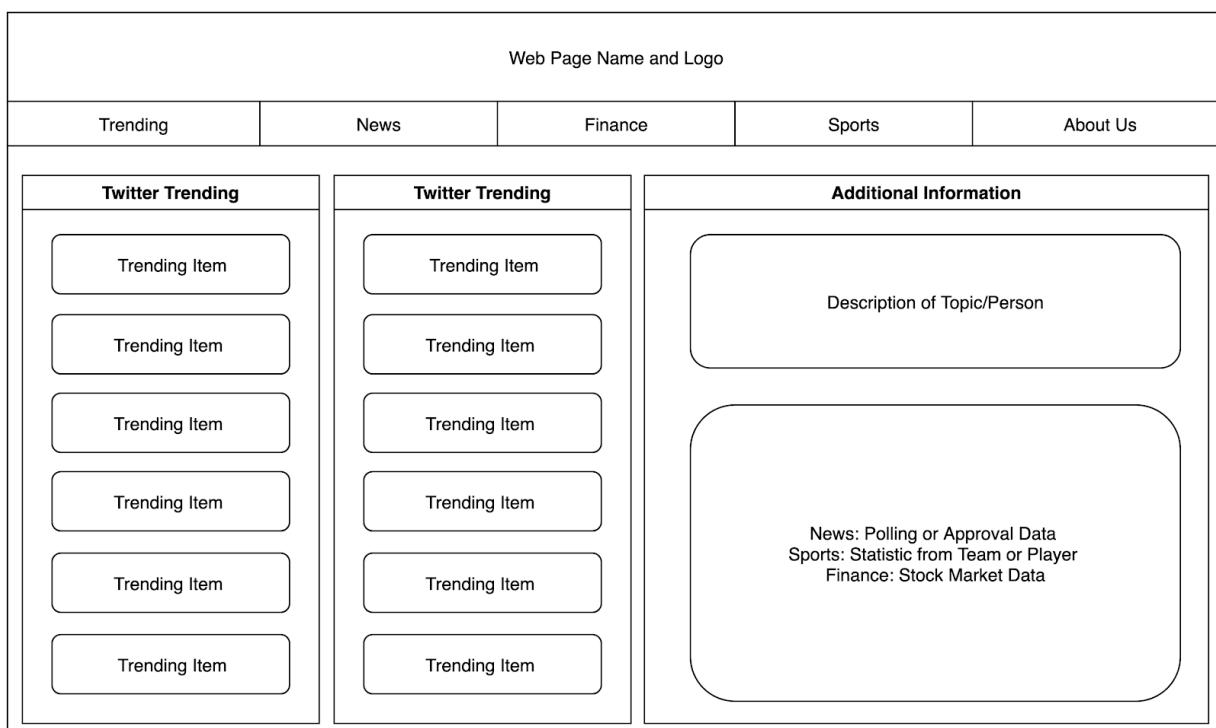
1. Initial Design Concept
2. Overall Product Backlog
3. Initial Burndown Chart
4. Sprint 1 Backlog
5. Report Assignments

## 1. Initial Design Concept

Influencers have long reacted to the world with social media, now the world reacts to social media. Our initial design concept a social media tracker. Using data from various social media platforms, our users could get a birds eye view of what is going on in the world. Specifically, we want our users to be able to see how certain trends in the social media sphere can affect other areas such as finance and sports.

Our application starts with a dashboard, where users can see trending topics from social media. These topics can be interacted with to give the user contextualized information about these topics. This can include Wikipedia entries, dictionary definitions, financial information, or in the case of sports, scores and statistics. This information can lead to other trends.

The main focus of our landing page will be a dashboard with trending information from various topics such as News, Sports, and Finance. Each topic will then have its own separate page for more detailed information.



## 2. Overall Product Backlog

### Goal Features List:

1. Display current Twitter Trends
  - a. Reach:
    - i. Display Archived Trends based off date
    - ii. Grab keywords using a natural language processing api
2. Display current Facebook Trends
  - a. Reach:
    - i. Display Archived Trends based off date
    - ii. Grab keywords using a natural language processing api
  - b. Subtasks:
3. Display Wikipedia information based off keywords in trends
  - a. Subtasks: Parse JSON data returned by API
4. Display Bloomberg/Yahoo Finance information based off company names appearing in trends
  - a. Subtasks: Parse JSON data returned by API
5. Display Wikipedia Information
  - a. Subtasks: Create display section on front end of website
6. Display FiveThirtyEight information based people or event. Eg. 2020 election or Approval Rating
  - a. Subtasks: Create display section on front end of website
7. Include a search bar to find specific trends about specific people, events, or location
8. Taskbar with page links
  - a. Subtasks: Create pages to be linked
9. Title (Butterfly Effect)
  - a. Subtasks: Code graphically appealing title bar
10. Team Logo

## Product Backlog:

Priority	Product Backlog Items	Estimate (hours)
1	Create a Trending.JS File	0.5
2	Build a navigation bar for the Trending Page	0.5
3	Create 5 Sections on the navigation bar on the Trending Page	0.5
4	Name the titles of each item of the navigation bar on the Trending Page	0.25
2	Insert Navigation links for each item of the navigation bar on the trending page	0.25
2	Build a title box area on the Trending Page	0.5
4	Create trending title on the Trending Page	0.25
4	Display the team logo on the Trending Page	0.25
1	Build a Box area for Twitter trends on the Trending Page	0.5
4	Create title for Twitter trends on the Trending Page	0.25
2	Display top 6 Twitter trends on the Trending Page	1
3	Ability to "Select" a trend from the Twitter Trending Box	1
1	Build a Box area for Facebook trends on the Trending Page	1
4	Create title for FaceBook trends on the Trending Page	0.25
2	Display top 6 Twitter trends on the Trending Page	1.5

3	Ability to “Select” a trend from the FaceBookTrending Box on the Trending Page	1
1	Build a box area for additional information on the Trending page	1
4	Create title for for additional information on the Trending page	0.25
1	Build a text area to display results from Wikipedia search to Information Box on the Trending Page	1
1	Create News.JS File	1
1	Build a navigation bar for the News Page	1
2	Create 5 Sections on the navigation bar on the News Page	0.5
4	Name the titles of each item of the navigation bar on the News Page	0.5
3	Insert Navigation links for each item of the navigation bar on the News page	0.5
2	Build a title box area on the News Page	0.5
3	Create trending title on the News Page	0.5
4	Display the team logo on the News Page	0.5
1	Build a Box area for Twitter trends on the News Page	1
3	Create title for Twitter trends on the News Page	0.5
2	Display top 6 Twitter trends on the News Page	1
2	Ability to “Select” a trend from the Twitter News Box	1
2	Build a Box area for Facebook trends on the News Page	0.5
4	Create title for FaceBook trends on the	0.25

	News Page	
2	Display top 6 FaceBook trends on the News Page	1
2	Ability to “Select” a trend from the FacebookTrending Box on the News Page	1
1	Build a box area for additional information on the News page	0.5
4	Create title for for additional information on the News page	0.5
1	Build a text area to display results from Wikipedia search to Information Box on the News Page	1
2	Create Finance.JS File	1
3	Build a navigation bar for the Finance Page	1
4	Create 5 Sections on the navigation bar on the Finance Page	0.5
2	Name the titles of each item of the navigation bar on the Finance Page	0.5
2	Insert Navigation links for each item of the navigation bar on the Finance page	0.5
4	Build a title box area on the Finance Page	0.5
4	Create trending title on the Finance Page	0.5
1	Display the team logo on the Finance Page	0.5
4	Build a Box area for Twitter trends on the Finance Page	1
2	Create title for Twitter trends on the Finance Page	0.5
3	Display top 6 Twitter trends on the Finance Page	1

1	Ability to “Select” a trend from the Twitter Finance Box	1
4	Build a Box area for Facebook trends on the Finance Page	0.5
2	Create title for Twitter trends on the Finance Page	0.25
3	Display top 6 Twitter trends on the Finance Page	1
1	Ability to “Select” a trend from the Twitter Trending Box on the Finance Page	1
4	Build a box area for additional information on the Finance Page	0.5
1	Create title for for additional information on the Finance Page	0.25
1	Build a text area to display results from Wikipedia search to Information Box on the Finance Page	0.5
1	Create Sports.JS File	0.5
2	Build a navigation bar for the Sports Page	0.5
3	Create 5 Sections on the navigation bar on the Sports Page	0.5
4	Name the titles of each item of the navigation bar on the Sports Page	0.25
2	Insert Navigation links for each item of the navigation bar on the Sports page	0.25
2	Build a title box area on the Sports Page	0.5
4	Create trending title on the Sports Page	0.25
4	Display the team logo on the SportsPage	0.25
1	Build a Box area for Twitter trends on the Sports Page	0.5
4	Create title for Twitter trends on the	0.25

	Sports Page	
2	Display top 6 Twitter trends on the Sports Page	1
3	Ability to “Select” a trend from the Twitter Sports Box	1
1	Build a Box area for Facebook trends on the Sports Page	1
4	Create title for Twitter trends on the Sports Page	0.25
2	Display top 6 Twitter trends on the Sports Page	1.5
3	Ability to “Select” a trend from the Twitter Trending Box on the Sports Page	1
1	Build a box area for additional information on the Sports page	1
4	Create title for for additional information on the Sports page	0.25
1	Build a text area to display results from Wikipedia search to Information Box on the Sports page	1
4	Create AboutUs.JS File	0.5
4	Create Meet our team title on the About Us Page	0.5
4	Build Box area for Team Member 1 Bio	0.5
4	Create text for Team Member 1’s Name	0.5
4	Build text area for bio description for Team Member 1’s Name	0.5
4	Insert image of for Team Member 1	0.5
4	Build Box area for Team Member 2 Bio	0.5
4	Create text for Team Member 2’s Name	0.5
4	Build text area for bio description for Team Member 2’s Name	0.5

*CSCE 315 - Team Project 2 HCI - Initial Design Concept Document*

4	Insert image of for Team Member 2	0.5
4	Build Box area for Team Member 3 Bio	0.5
4	Create text for Team Member 3's Name	0.5
4	Build text area for bio description for Team Member 3's Name	0.5
4	Insert image of for Team Member 3	0.5
3	Add a natural language processing api to pom.xml	1
3	Use a natural language processing api to parse keywords	1.5
2	Use the keywords to search Wikipedia API	1
1	Display results from Wikipedia search to Information Box	1
1	Finalize Deployment Scheme	0.5

### 3. Initial Burndown Chart



## 4. Sprint 1 Backlog

Priority	Product Backlog Items	Estimate (hours)
1	Create a Trending.JS File	0.5
2	Insert Navigation links for each item of the navigation bar on the trending page	0.25
2	Build a title box area on the Trending Page	0.5
4	Create trending title on the Trending Page	0.25
1	Build a Box area for Twitter trends on the Trending Page	0.5
4	Create title for Twitter trends on the Trending Page	0.25
2	Display top 6 Twitter trends on the Trending Page	1
3	Ability to “Select” a trend from the Twitter Trending Box	1
1	Build a Box area for Facebook trends on the Trending Page	1
4	Create title for FaceBook trends on the Trending Page	0.25
2	Display top 6 FaceBook trends on the Trending Page	1.5
3	Ability to “Select” a trend from the FaceBookTrending Box on the Trending Page	1
1	Build a box area for additional information on the Trending page	1
4	Create title for for additional information on the Trending page	0.25

1	Build a text area to display results from Wikipedia search to Information Box on the Trending Page	1
3	Create Title of Webpage	0.25
2	Develop Maven JSON parser for Twitter API	1.5
2	Develop Maven JSON Parser for Facebook API	1.5
2	Develop Maven JSON Parser for Information API	1.5
2	Connect Twitter API Parser to front end	1
2	Connect Facebook API Parser to front end	1
2	Connect Information API Parser to front end	1
1	Verify Final Sprint 1 Design	0.5

## 5. Report Assignments

**Project Proposal:** Nicholas Cashiola

**User Stories and User Study:** Donald Hacker

**User Study Report:** Ryan Clark

**Team Retrospective Report:** All Team Members