FINAL PROJECT

OPIM 668 30

INTERNET BUSINESS TECHNOLOGIES

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OVERVIEW

As a part of the final project, our team is going to build a news website. Gathering information has always been an important aspect in business school. News is the one of the primary sources of information. With this project we intend build a website which gives Georgetown student easy access to relevant news in the field of Business, Sports, Health and Technology.

For this project/release we would implementing only basic features as a pilot (release_02/27/209). Other advanced features would be published during subsequent releases. We have broken down this pilot project into 4 phases:

PHASE	# MAN HOURS	TIMELINE	DELIVERABLE
REQUIREMENT ANALYSIS			This document
PLANNING & DESIGN			This document
DEVELOPMENT			Git hub Link
TESTING & FIXES			Git hub Link
GO LIVE			Git hub Link

Detailed information about the functionality, features, technology tools and languages used etc. are documented in this document.

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PROBLEM STATEMENT

There are lot of news sources on the internet with news articles covering everything in the world. However, a business student at McDonough has limited time and is interested in information about a few specific categories.

To fix this problem we are developing a news website. This website will provide easy access to ‘Business’, ‘Entertainment’, ‘Sports’ and ‘Technology’ news around the world. The search functionality will also enable students to search for specific news.

PROPOSED FEATURES FUNCTIONALITY

Features:

We have broken down the proposed solution into below features:

- Home Page Layout and Navigation
- Search feature
- Streamlined ad space allocation
- Sign up and login options
- Different news sections
- Subscription option
- Email validation for subscription
- Email & password validation for signups/sing in
- Latest news and Top news feed
- Social media links and integration
- Payment integration

Prioritization method:

The prioritization for this pilot release is done based on Feasibility, Viability and Desirability in line with the goal of 2/27/2020 pilot release with the limited resources we have.

Feasibility: How technically possible is the feature given the resources and tools we currently have? (what's impossible or highly improbable).

Desirability: Do our users actually want it? Is it going to be enough to capture or run users' tests and validation?

Viability: How does this feature relate to or support your overall strategy and the requirements? Is it viable in terms of the opportunity cost, timelines and capital?

#	Features	Feasibility	Desirability	Viability
1.1	Home Page Layout	High	High	High
1.2	Navigation Bar			
1.3	Top News and Latest news Feed			
2	Search feature	High	High	Medium
3	Streamlined ad space allocation	Low	Low	Low
4	Sign up and login options	High	High	Medium
5	Different news sections	High	High	High
6	Subscription option	Low	Low	Low
7	Email validation for subscription	Low	High	Medium
8	Email & password validation(signups)	High	High	Low
9	Payment Integration	Low	Low	Low
10	Highlights feed	Low	Low	Medium
11	Social media links and integration	Medium	Medium	Low

Prioritized Deliverables and functionalities for Project release_02/27/2019:

Based on the prioritization table, we consider the features which score 'High' on at least two metrics as must need features for the pilot release.

1) **Home page layout & navigation:** This is the page opens when one hits the website. It displays **top news** and **latest news** sections making it easier/accessible for users to grasp important information. Additionally, it also has call to action button in the form 'Subscribe' button.

2) **Individual Sections:** These are dedicated sections categories based on the news. For this release we have 4 sections:
   - Business
   - Sports
   - Entertainment
   - Technology.

   Each of these sections has top news and latest news display for the category.

3) **Search feature:** This is a basic key-word match search feature and would help users to look for information or news quickly and efficiently.

4) **Sign up & Login:** Basic login & sign up functionality for all users.

INFO INPUTS AND OUTPUTS

Inputs	Outputs
API data	Data Aggregation
API Key	Data Curation
Email Text Input	Successful Sign in/Sign up Message
Password Text Input	Successful Sign in/Sign up Message
Search Text Input	Search Results
In-site navigation buttons	Page Navigation

TOOLS/LANGUAGES USED

We would use the following tools and languages:

- GitHub
- Visual Studio
- HTML
- Java Script

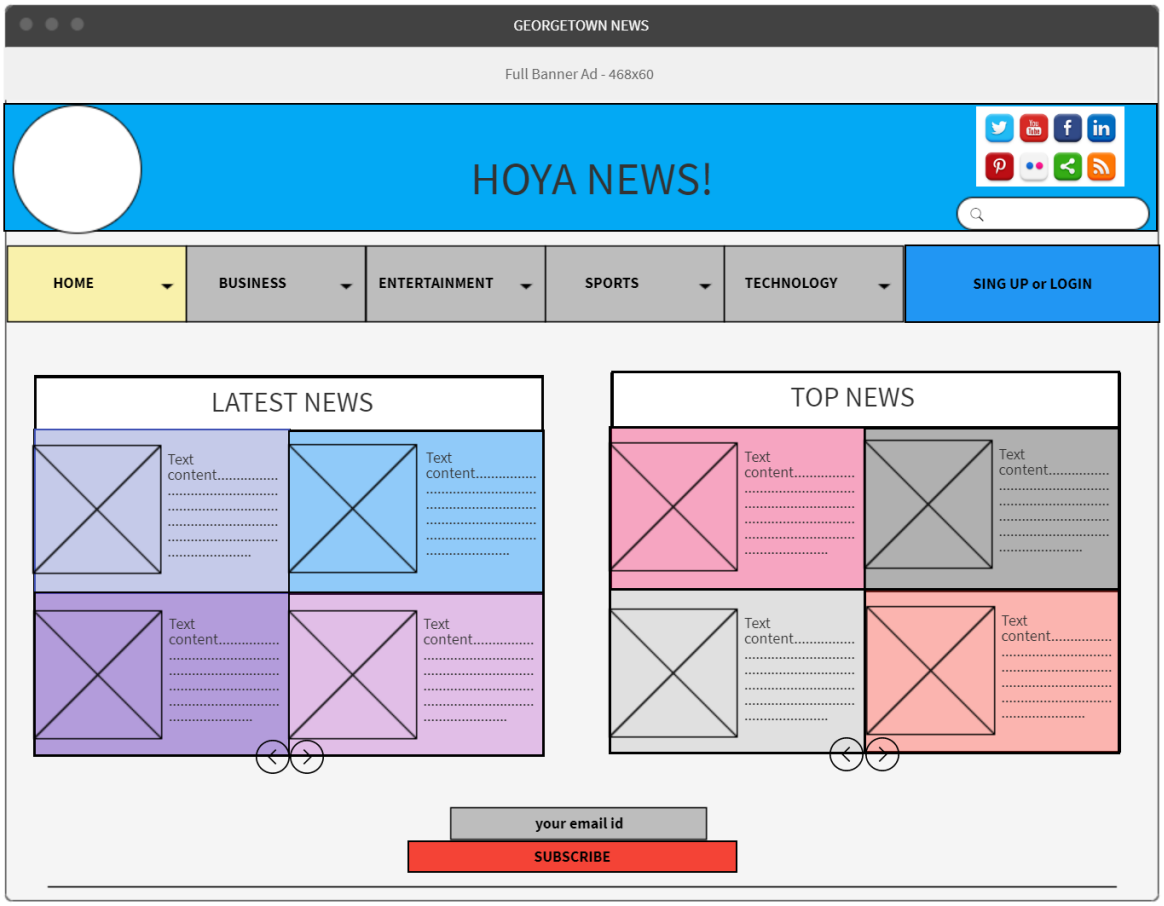
Standards:

We have used industry design & development standards (for both mobile and web) in line with SEO.

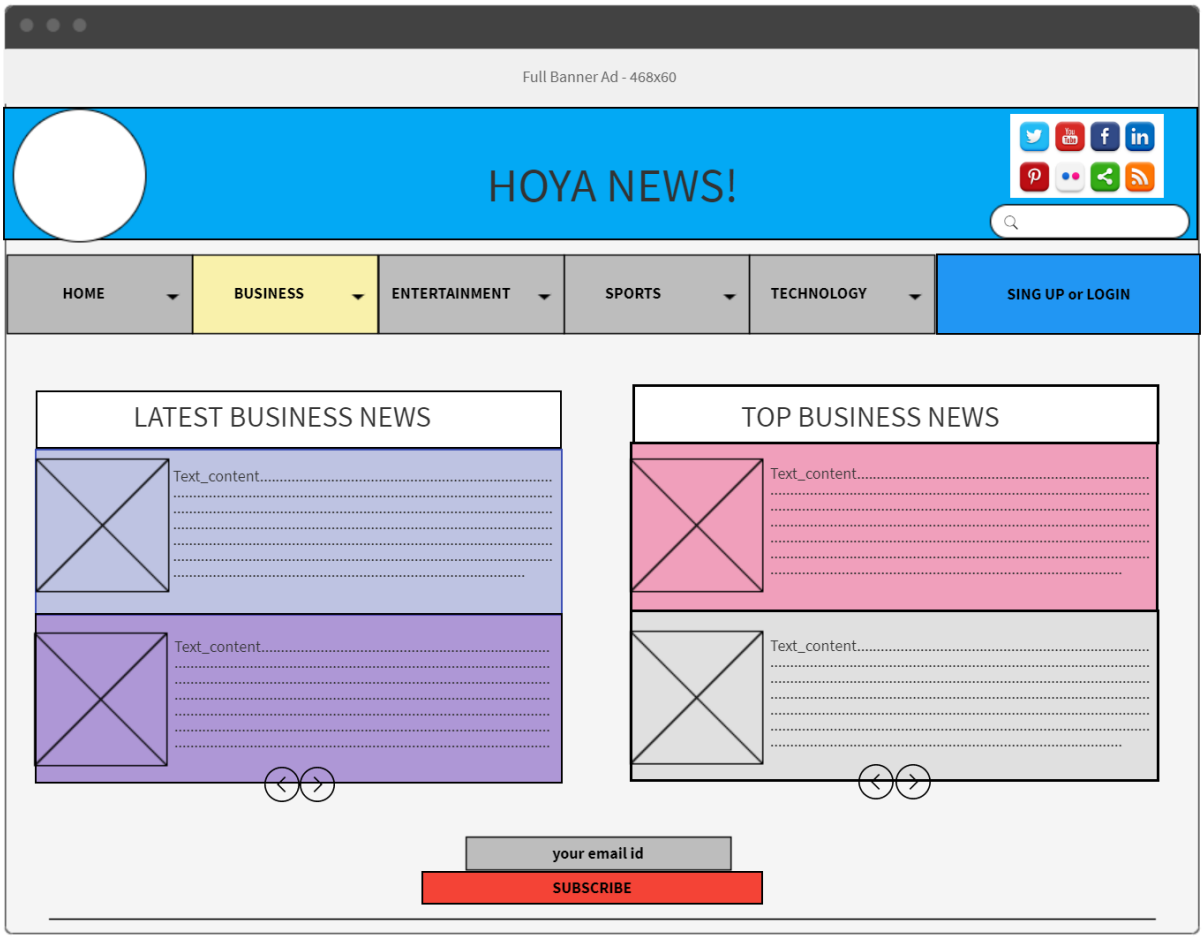
PROPOSED DESIGN:

Again, we have broken down the website into different layers. Please find the proposed designs or wireframes for each one of them below for release_02/27/2020:

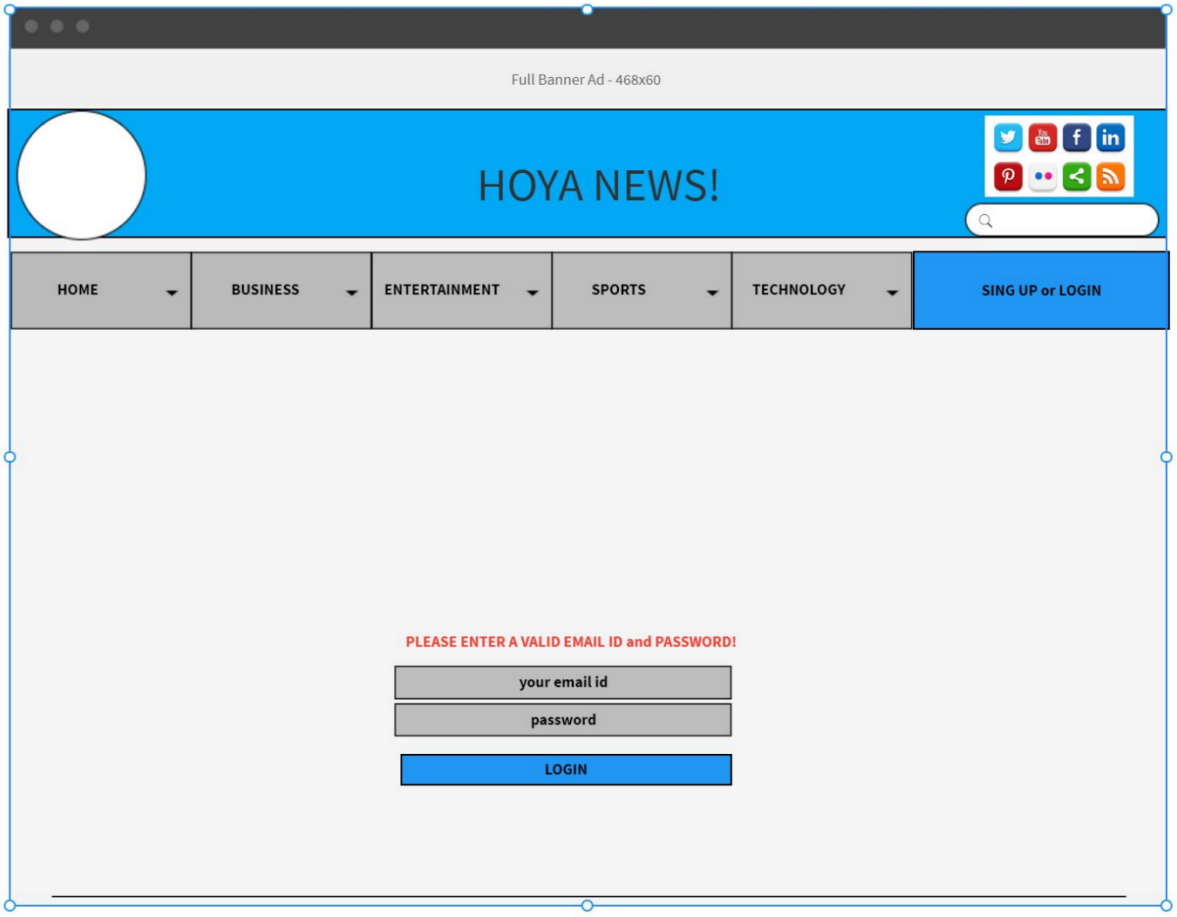
HOME PAGE:



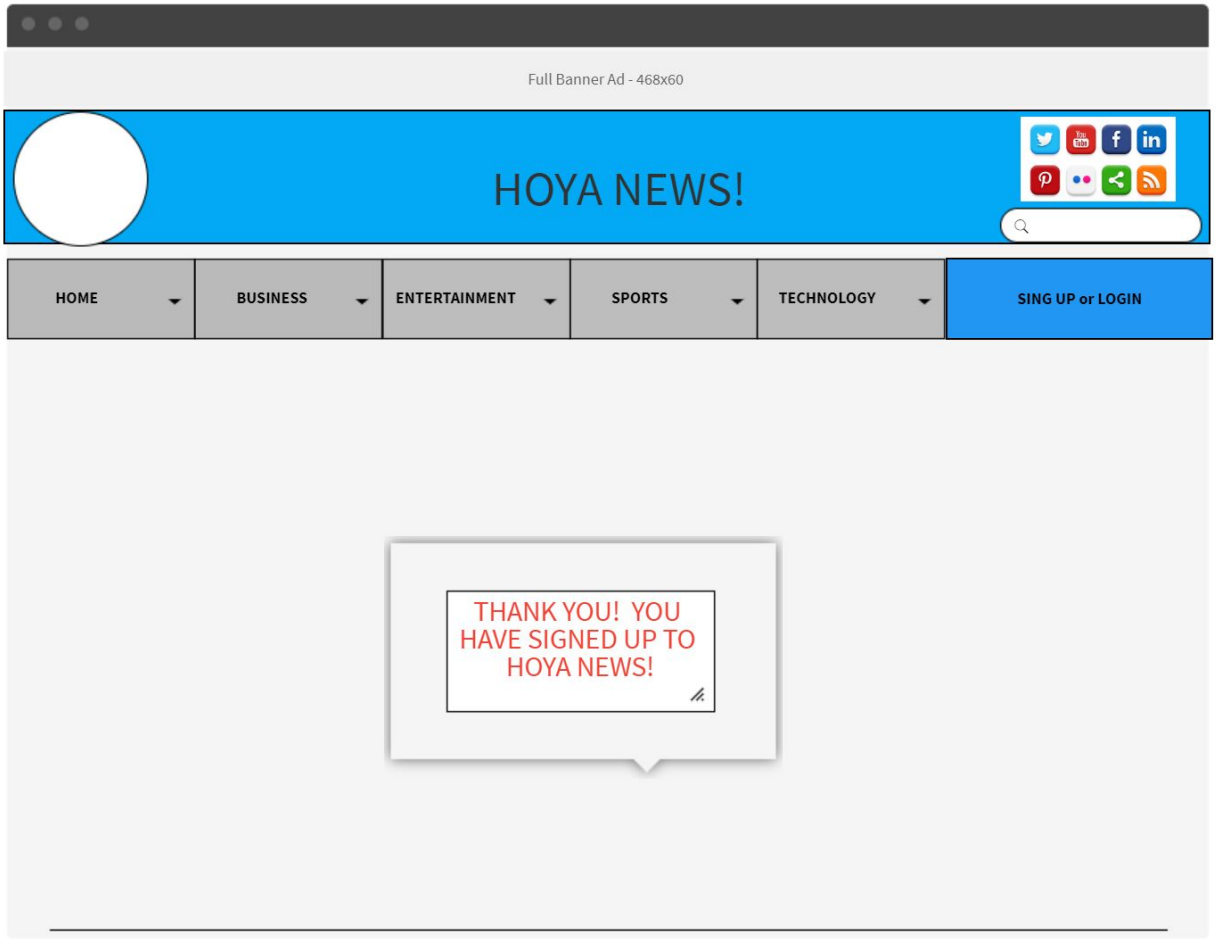
BUSINESS PAGE (All sections, i.e. SPORTS, ENTERTAINMENT, TECHNOLOGY will be similar to this):



ERROR PAGE (Login validation):



SUCCESS PAGE (Successful Sign up):



TEST CASES (specific to release 2/27/2019):

After the development of website, we are going to test the following cases to make sure we have the desired functionalities:

1) Standardized display of news on the home page and other pages as shown in the wireframe.
2) Successful navigation from the home page to all sections (Business, Health, Sports, & Entertainment)
3) Successful navigation from different pages to HOME page
4) Successful Navigation from One section/page (e.g. Business) to another (e.g. Health)
5) Search functionality producing desirable results (Keyword match)
6) Successful validation of email and error response
7) Check login and sign up functionality.