Localr: Product Requirements Document

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Goals

Goals
Provide news that is localized and more relevant.
Provide news in a way that is easy to access and understand.
Provide an alternative to social media for news.
Bring innovation to presenting news by having a map interface.

User Personas

PROJECT: untitled   PERSONA: David Busshart

NAME
David Busshart

TYPE
Rational

Goals: As a college student searching for a job, he's interested in news related to his field of study. And since he wants to work at a local company, an app that helps him have easy access to news about the local companies would be great help.

Quote: I just want to read news that is meaningful to me without going over endless posts on Facebook

Background: Like many of his friends, he doesn't really care about news that does not directly affect him. Also, he doesn't have time to read so many articles on Facebook or social media. He would love to have a source of news that is relevant to him.

Demographic

Male   22   years
Long Beach
Single
College Student

Technology

Browsers

Motivations: With this app, we can help him get access to news that's beneficial to him, ranging from what's happening in his local area, to job related news.

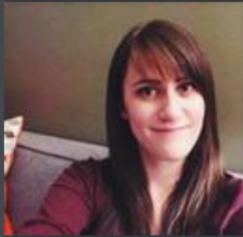**Frustrations:** Wasting time looking online about information he want to learn about his local area

NAME	TYPE
Linda Woods	**Rational**

Goals: To find a source of news that is customized to her interests, and can help her keep an eye on real estate in her local area.

Background: As a real estate agent, understanding the housing market, especially of her local area is crucial for her career. This app can help her get access to news that's is actually relevant to her career.

Motivations: In need of a source of news that is actually relevant to her interests

Frustrations: Tired of reading irrelevant news

Demographic

Female   32   years
Los Angeles
Married
Real estate agent

Technology

Browsers

NAME	TYPE
Henry Estrada	**Artisan**

Goals

- Serve as a positive influence in the lives of the young people he teaches and coaches.
- Travel
- Maintain work-life balance
- Settle down with his long time girlfriend

Quote

Carpe Diem

Demographic

Male   29   years
Arizona
Single
High School English Teacher
$65,000

Background

Henry has been a high school English teacher for a couple years now. Having played baseball at the Community College level before transferring to a four year university, Henry also serves as a coach for his school's junior varsity baseball team. He has been in a steady relationship for a while, and is starting to think about settling down.

Motivations

With respect to news media, Henry gets a lot of it from traditional outlets delivered digitally (Washington Post, New York Times, etc...). He discovers news mainly through push notifications from applications on his mobile phone and / or social media accounts (Facebook, Instagram, Twitter). Being a high school English teacher, Henry appreciates well researched investigative pieces, but mostly only has time to read short articles on a daily basis.

Frustrations

Henry likes keeping up with current events so he can tie them in to his classroom lectures and activities. While he believes discussing global issues is an important learning tool for his students, he also wants to encourage them to be active in their local communities.

Technology

Browsers

User Stories

	User story title	User story description	Priority	Notes
1	Sign up	A user wants to sign up for the app using their email address and password to save their preference	HIGH	Allows users to sign up using email and password
2	Login	An existing user wants to log in using their email address and password to get their preferences	High	Allow existing user to log in using email and password

3	Retrieve account	A user wants to retrieve their account information in case they forget the password (password reset)	High	Send a link to the user's email, and allow
4	Set location	A user wants to set their location in case the app doesn't detect their location	High	Allows the user to set location, it doesn't have to be user's geographical location
5	Set news interest	A user wants to filter interests in the news (sports, politics, entertainments, etc…)	High	With the interests set, we can deliver news according to the categories that users want. This can be done using machine learning
6	Save news	A user wants to save news to read later	Medium	Save news into different categories
7	See summarized news	A user wants to see summarized news to save time	High	This can be done using deep learning
8	Set news as seen	A user wants to set news as seen, so they don't accidentally click on old news again	Medium/Low ?	If the news was seen, we move it to the seen category, it won't show on the user's news map again
9	Keep track of reading history	A user wants to have a list of articles that they opened so they can retrieve it later if needed	Low	
10	See pins of news on the map	A user wants to see pins of news	High	Each bin will have a certain symbol for the category that the news belongs to

Server Sitemap

1. Homepage
   a. Login with email and password
   b. Sign up with email and password
2. Location page
   a. Choose your current location
   b. Choose a zip code
3. Preferences / Filters
   a. Choose the category of news you want to see
4. Side menu with brief information
5. Map interface having pins with color
6. Settings page
   a. Change location
   b. Change notifications preference
   c. Change account privacy
7. Account privacy
   a. Change your name
   b. Change your account password

Server Sitemap
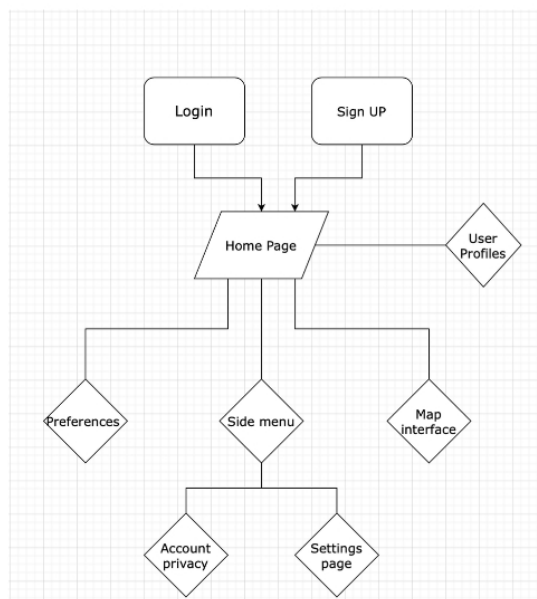
Page Descriptions

Page	Elements
Homepage	Your profile: • Email Address • Password • Confirm password Creates an account for a new user or asks for existing user credentials for logging back in
Location page	• Choose current location • Enter a zip code It allows the user to choose between the current location or the location they want to check the news of.
Preferences / Filters	List of the category of news the user can choose from to personalize their preference.
Side menu with brief information	Shows buttons like profile, settings, preferences, and help.
Map interface having pins with color	Shows the map of the location chosen with preferred news topics of users.
Account privacy page	Allows the user to: • Change profile picture • Logout
Settings page	Users have the option to: • Change home location

Wireframes
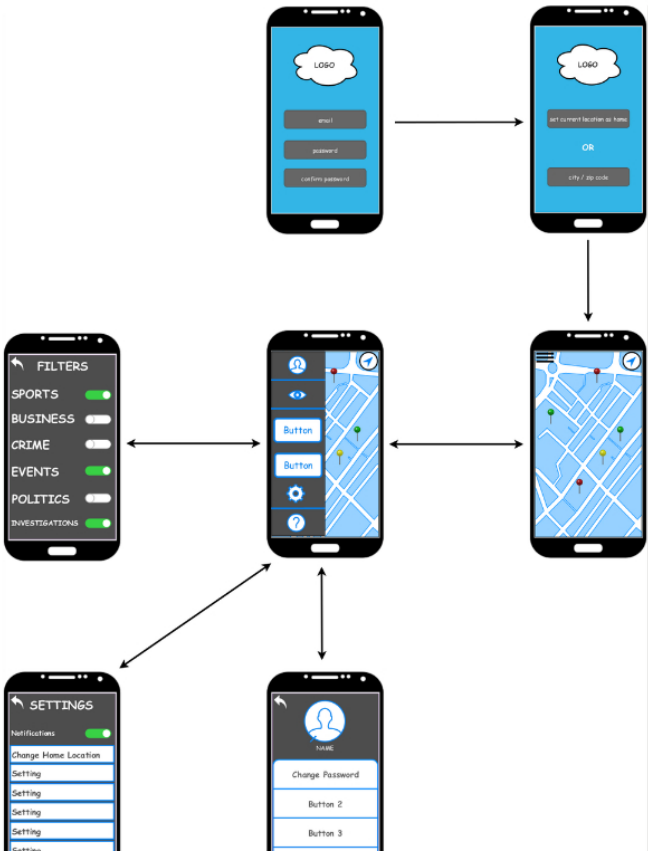
Interfaces

- **Users** : Application deployed on iOS / Android mobile devices

- **Local News Publishers** : Content supply

- **Firebase Realtime Database** : User authentication

- **Google Compute Engine** : Training Machine Learning model

- **Google Maps API** : Our primary user interface

- **Amazon Web Services** : Host application server

Requirements

Additional Functional Requirements

☐ Authentication/User Validation - The system needs to be able to validate/authenticate the user's identity when the password-email combination is not found in the database.

☐ Historical Data - The system should be able to keep a track of user and app history regarding news reports, dates, and filters.

☐ Response Time - The Localr system should respond in real-time to any filter changes or news updates.

☐ Filter Control - The application must allow users to set news topic filters to some degree and must be able to display these filters and limit these filters accordingly, as well.

Non-Functional Requirements

☐ Modifiability - The system must keep a relatively similar design to initial interface/page designs, and any changes to elements in the design must only change that element and that element alone.

☐ Usability - User interface must implement a design with understandable, neutral font, images, and icons.

☐ Interoperability - The app must work in constant correlation with the User database, and the machine learning aspect of the news reporting.

☐ Reliability - News headlines displayed on the map must be current and must be updated for continued reliability.

Performance Requirements

- The app launch time should be less than three seconds to not frustrate the user.
- The map's portion of the app should allow for 1,000 concurrent users.
- Each user should be able to send 5 update requests per hour.
- The update should not slow down the application or hinder the use of the application.
- The map should scroll seamlessly on mid-range phones.
- Screen to screen response time should be under 2 seconds.
- The server should update news stories every one to two hours.

📑 Future Iterations

1. Add more users stories
2. Add feature - short description of articles
3. Add feature - multiple news filters applied at once
4. Add feature - sharing articles
5. Add feature - save locations that they want to view news in

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