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#### Lester Jones lesterajones@gmail.com 443.671.2866

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The UX Researcher/Designer with Expertise in Informing Results Delivering UX Efforts for Large Impactful Systems.

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## Lester Jones

#### **Academics**

2021 - Graduate Certificate - Cyber Security **Harvard Extension School** 

2009 - Masters - Information Architecture and **Interaction Design University of Baltimore** 

**2005 - AAS - Computer Information Systems Baltimore City Community College** 

2000 - B.Sc. - Zoology and Botany **University of the West Indies** 

#### **Special Sauce**

- Experience Leading Nation Spanning Ethnographic **Studies**
- Expert in Generative UX Research Methods
- **Experience working with Large Scale Systems that Impact Millions of Users**
- Experience with both UX Research and UX Design **Methods**
- Professional Photographer, Drone Pilot and Overlander
- Experience working in Confidential Environments
- Strong Science Background



A research project to conduct an internal review of current search applications across different UHC products and provide an initial design model to mitigate existing short comings

Full Design Details and Research Results Not Presented Due to Disclosure Rules

# Search

## The Research Process



and workflows that have and would need a search function.

#### Investigate and Understand

Interview product owners and users of various internal application that have a search function.

#### **Develop Solutions**

Conduct brain storming, Competitive and Comparative analyses and test the outcomes with users, SME's and product owners.

Develop annotated prototypes of a search solutions informed by Research and constrained by the design system and technical capacity.



# Investigate and Understand

- Typical Use Cases for Search for Internal Products
- Infrastructure Issues that would impact search applications
- Pain Points in Current Search Implementation across internal products.
- The efficiency of current search related tasks

Interviews were conducted with Product Owners and Users to determine the following



#### **Research and Analysis Research Methods Used**

The following Research Methods were used in the Analysis of the Search Function across UHC products

- Workflow Analysis
- Efficiency Testing 2.
- Comparative Analysis 3.
- Competitive Analysis 4.
- AB Testing 5.
- Section 508 Accessibility Testing 6.

#### Search Deficiencies fell into 3 main categories.



#### Fragmentation



Search is inconsistently deployed across Optum systems.

#### **Missed Opportunities**

Search functionalities were missing from key areas where it's addition would significantly improve application functionality.

#### Lack of Optimization

In some places search Functionalities did not produce the desired results as a result of a programmatic issue.





## **Research and Solution**

The research methods in the used in the previous slide were used to determine the problems with the current search interface and develop solutions that would resolve these short comings.



## **The Main Member Search**

Task: Users enter their query into the text box and the results are populated in the drop down

#### Challenges

- Users cannot sort results.
- No count to tell users how many results have been retuned.
- Difficult to find common names in a list of common names.
- Users must scroll within a narrow view port to find the results.
- Results drop down are not Section 508 Accessible.
- It can be difficult to find a known result.

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# Solution Member Search

- Give user the ability to toggle between the current elastic member search result format and a table result view.
- Give the users a search result number count and pagination.
- Allow for search result sorting.
- Give the users the ability to change the compactness of the search results.
- Give users the ability to view additional details with an "accordion" affordance.

Allow users to view search results in table view.

Give users an "accordion" to view additional search result details

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Give users the ability to sort results

Give user a search result count.

Allow users to change the search result display density.



### **Customer Interaction History**

Task: Users can view the history of member interaction. There are several types of interaction and each uses its own type of interface.

Challenges

- Some Customer Interaction History Views have a search feature and other interfaces do not.
- The look and feel of search Interactions are different even though they are displaying the same type of content.

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#### **Document Search**

- Potentially give an option to display all member interactions with UHC as single gantt style chart
- Present filters to allow Agents to select the interaction type to search for/display for a single element
- Allow users to sort by each column using the header when in table view is used
- Utilize the typical table search results affordances that includes pagination, record counts, filters, etc.
- Potentially utilize icons to differentiate between content types in the search results



### **Document Search**

Task: Users have entire libraries of customer documents. These include scans, prescriptions, reports etc. Internal use need find and access particular records.

Challenges

 Agents cannot use Search to find a documents in question and must manually review the customers 'document list to find the document of interest.

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#### **Document Search**

- Present users with a document list with typical search affordances that include pagination, record counts, filters, document types etc.
- Included document categories with callouts to denote document type
- Allow users the ability to search for documents uploaded with in a particular date range
- As all document types are PDF's, give the users the selectable option to search the actual contents the documents themselves
- Present the user with a modal with advanced document search and review options that include Download, Send, etc.

download or view the fill document

Fund Deal Tokyo 2020.pdf 4 pages - 25/04



#### **Service Provider Search**

Task: Agents often assist members in finding service providers in their vicinity. A location search tool is used for this purpose.

Challenges

- The map view as it exist is not optimized and is crowded with other functionalities.
- The proximity search is broken and defaults to a nationwide search if a provider is not found within the selected radius.

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#### **Service Provider Search**

- Develop a map interface with a larger map and more minimized controls
- Put provider details in the Map Pushpins
- Fix the search radius issue so default to a state level result listing if the standard zip code listing yields no results.





# Iterative Prototype

After the <u>aforementioned</u> prototypes iteratively deve presented.

- **Member Search**: This search interface lets agents find the member of their choice from a total list of members.
- **Member Content Search**: This search interface lets agents search for any piece of member content, including, doctor visit records, prescriptions, medical scans, etc,

- After the aforementioned UX Research and Testing Methods were utilized,
- prototypes iteratively developed the consolidated into solutions, **two** of which are



#### **Member Search Results**

- Agents are presented with search pagination and can change the number of results presented per page
- Agents have a show hide accordion that displays notes on a members last interaction with UHC
- Agents can use a smart search that all that allows them to enter semi colon separated variables which are recognized and treated as search criteria.
- Agents can sort and filter search results
- Account Sponsors are lighted and colored for rapid recognition.

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Search Result Pagination

10 ^ entries per page



### Member Content Search

- Users no longer have to user multiple search interfaces to find patient content.
- The content of documents are search and presented to agents.
- Agents can toggle between a Dynamic Elastic Search Results and Traditional Table Results view
- Agents see which other agents are viewing their current account.
- Uses can save searches as filters to speed common searches in the future.
- Search results are categorized with tactic's that denote their category and type.
- Technical and learning debt reduced by iteratively updating interface elements.



# **UnitedHealthcare**<sup>®</sup> Outcome

Successfully provided UX Artifacts and Guidance to develop new search interface that

improved retrieval accuracy by 25%.

reduced information

retrieval times by 74% and