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# Project Alexandria

**Alexandria (Like the library of Alexandria)** - The concept of this product can be basically boiled down into a mentor-oriented phonebook. One interesting thing about FICO is that it has a very wide exp/tenure gap; with there being a lot of folks in more senior positions, along with a growing number of new grad/interns joining the company. With more individuals on the ends of this distribution compared to the median, there is sort of a surplus of SMEs (subject matter experts) that could provide meaningful mentorship/information to their junior counterparts. Beyond a senior/junior knowledge gap, there's also a use case where people in one area of the company could be interested in learning more about a specific internal service or domain space for the sake of a specific project or career pivot.

**Product Model:** This application would be built off two profile types: a mentor and mentee. Both profiles would include a profile picture and general information relating to an individual's bio, work history, key projects contributed to (internal and at previous employers), and teaching/learning philosophy. There would also be a button to direct message a mentor and be hyperlinked to their direct message inbox (for our case that would be to their Microsoft Teams account). Below is a continued look at some specific information provided to both account archetypes (requirements obviously subject to change [this is just a prototype design proposal lol]):

- *Mentor*
  - Provide key phrases for domain spaces for which they are experts in
    - Internal Tools/Services (i.e., FICO Platform, DMP, Event Management, Marketplace, etc.)
    - General Skills (i.e., Cross-functional leadership, Java coding, agile-based prod. Management, etc.)
  - Provide a ballpark number for years being a mentor
  - A list of some prev/current mentees they've worked with at FICO
  - A mentor would also say what they'd hope a prospective mentee would be able to say that they got out of connecting
- *Mentee*
  - Provide key phrases in profile for domain spaces for which they are seeking mentorship in
    - Along with a selection of key phrases, a mentee would also describe their overall learning goals for each potential subject matter

- A brief description of their learning style
- A list of some current/previous mentors they've worked with at FICO

To pair with the profiles, some sort of search engine is necessary so that mentees could search for specific domain spaces of interest and be given a list of recommended mentors. A mentee can scope through this list of recommended mentors, click & explore their profiles, and then subsequently DM a prospective mentor. To pair with searching via key phrases, a mentee should also be able to look up mentors by name as well. Besides this key search function and mentor recommendation model, there is also a vested interest in making a homepage with some recommended mentors based on a mentee's selected fields of interest: leaving the search function to kind of be used for 'one off' searches that don't relate to one's main domain spaces of interest.

# Meeting #1 Agenda

Goals:

1. Define the problem & scope
2. Define user personas
   a. We know exact people that will be using the app
   b. Mentors → Faux
      i. Can reach out network
   c. Mentee → Faux
3. Define MVP
   a. Internal Web App?
      i. Panel tile on Okta?
4. Define EPICS for each part of the stack (Frontend, Backend→DB vs. API logic)
   a. UI/UX Design/Mockups
      i. Daniela & Nathan to work on Prototype for how everything looks
      ii. Central directory pages created
         1. **Deadline for prototypes is next Friday the 25th**
   b. **Key Features**
      i. **Primary Concerns**

1. **Mentee Profile**
2. **Mentor Profile**
    a. **Direct to MS teams**
3. **Suggested Mentors**

ii. **Secondary Concerns**
1. **Search Function**

    c. DB Design
        i. Profiles
            1. Mentor
            2. Mentee

- Choose the tech stack
  - Frontend
    - React
  - Backend
    - Logic
      - Python
      - FastAPI
    - Database
      - Relational DB


Specific Work We Can Do:

1. User Personas
    a. 3 mentors + 3 mentees?
    b. Nathan's Manager [Name] (testing)
    c. Sales Rep – Marykate (testing)
2. Working on Backend & Frontend simultaneously
    a. Backend first w/o functionality
    b. Nathan & Daniela work on frontend + design while testing
3. Solid prototype for Figma (mentor & mentee) for next week (7/21-7/25)
    a. Thinking on Workday
4. Important Features for Now:
    a. Two profiles – mentee and mentor
    b. Search with suggestions features for mentees

      c. Algorithm that takes mentee profile and scans existing mentors and suggestions a handful

      d. Button to open Microsoft computer and immediately puts you in chat window with the person

5. Holistic view for mentors
6. Weekend – Search for potential templates of models to use for the algorithm
7. Engineering Folks
      a. Ahzsa → Database side of backend
      b. Mariana → Frontend (If there's more time to work on backend can support)
      c. Ashley → Backend (Packaging information to database)
      d. Tinsay → TBD (Most likely backend)

TO DO:

1. Look for templates to use for models for recommendation algorithm
2. Daniela & Nathan will begin Figma + acquiring research
3. Database Design
4. Collect quotes/stories for use cases for our product. This will aid in making it easier to have people buy into why our app is good to connect folks.

# Meeting #2 Agenda

Updates:

- UI/UX
    o Figma file created
    o Daniela & Nathan will design & hopefully get a mockup of a profile by Friday
    o Get mentors and mentees to test out the prototype in the future once that gets done (End of next week)

- Frontend
    o React → provides easy access to backend & component-based architecture
- Backend:
    o Python

- - FastAPI → Easy creation for endpoints
    - Easy interaction with RDBs
    - 
- Mentor/Mentee profile
    - Intern for the scope of the project
    - Use a matching algorithm

- Presentation:
    - 

TO DO:

- Figma Prototypes
- Presentation
- DB Diagram
- Functionality of backend
    - Begin Implementation?

# Meeting #3 Agenda

Updates:

- UI/UX
    - Mentor Page Prototype in works
        - *pretend mockup is here*
        - Nathan is to get necessary matching tags and needed information to display to backend
    - User flow:
        - Mentee (user page) → links to explore mentors
        - Mentee page to be worked on later
- Backend

- **<u>Matching IS THE MOVE RIGHT NOW (to get mentees some mentors)</u>**
  - Tags:
    - Mentee side = fields of what they're seeking mentorship in
    - Mentor side = subject matters the mentor could
  - Potential DB queries can be used to group mentors to recommend to a mentee based off common ground
    - Feasibility to be discussed later
    - (Think the middle of a venn diagram)
- Database Design is underway
  - Ahzsa and Ashley are to be syncing over the next few days to get DB design in order
- FastAPI backend is underway
  - Skeleton of endpoints to be worked on this weekend
  - Ahzsa and Ashley are to be syncing over the next few days to get backend sketched out