Team: Mentor CRM

Title: Michael Bernabei, Jose Vieitez, Akash Devgun

Project Summary:

As of today there isn't any mentor CRM systems worthwhile. Our plan is to build a worthy mentor system that could see real world use. The system would include: profiles, ratings, search, and messaging capabilities.

Requirements:

Business Requirements				
ID	Requirement	Topic Area	User	Priority
BR-001	Mentors need to provide at least one email linked to a LinkedIn profile.	Authentication	Mentor	Critical
BR-002	Mentors must provide at least one valid form of contact information.	Profile	System	Critical
BR-003	Companies must provide contact information			Critical
BR-004	Mentor profiles need to have a rating field.	Profile		Critical
BR-005	Mentor profiles need to have a comment box.	Profile		Critical

User Re	User Requirements					
ID	Requirement	Topic Area	User	Priority		
UR-001	As an admin, I need to be able to see settings to allow the modification of all mentor profiles in the system.	Mentor Profile	Admin	High		
UR-002	The system shall support user roles, e.g. Super, Medium, and guest users.	Authentication		Critical		
UR-003	As an admin, I need to be able modify all other mentor profiles in the system.		Admin	Critical		

Functional Requirements					
ID	Requirement	Topic Area	User	Priority	
FR-001	The system must add information from a mentor's LinkedIn profile.	Mentor Profile	System	Critical	
FR-002	Store a mentor's LinkedIn profile	Mentor Profile	System, DB, Admin	Critical	
FR-003	A company's name and contact information must be stored in the database	Company Profile	System, DB	Critical	
FR-004	A mentor's mentoring history must be stored in the database.		System, DB, Mentor	Critical	
FR-005	Create Company and Mentor Meeting		Admin		

Non-Functional Requirements				
ID	Requirement	Topic Area	User	Priority
NFR-001	The system should retrieve a LinkedIn Profile in order 1 minute.	Mentor Profile	System	Medium

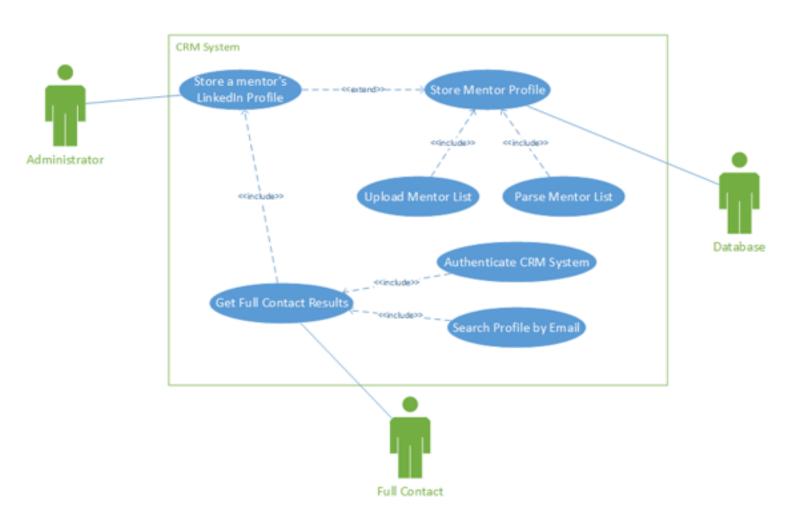
Use Cases [Michael Bernabei]:

Use Case ID:	FR-002		
Use Case Name:	Store a mentor's LinkedIn profile		
Created By:	Michael Bernabei	Last Updated By:	
Date Created:	Feb 22, 2016	Date Last Updated:	

Actor:	Administrator, Full Contact API, Database
Description:	Store a mentor's linkedIn in the database.
Preconditions:	 System should have parsed the comma separated email address list. Mentor should have a valid LinkedIn account.
Postconditions:	Mentor's LinkedIn information is stored in the database.
Priority:	Critical
Frequency of Use:	Monthly
Normal Course of Events:	 The administrator provides a list of mentors to upload to the system. The system parses the email addresses. The system calls the Full Contact API passing the mentor email as a parameter. The Full Contact API returns its search results to the system. The results from the Full Contact API are parsed and stored in the database.
Alternative Courses:	 LinkedIn information is not available The Administrator will be alerted to the issue Contact Must be made with the Mentor in order to retrieve the required information to be stored in the database.
Exceptions:	 Mentor's LinkedIn information is not available. Administrator login fails. Full Contact API rejects request from the system. Full Contact API doesn't find information on mentors. System fails to parse the mentor email addresses.
Includes:	Get Full Contact Results
Extends:	Store Mentor Profile
Special Requirements:	System needs to have access to Full Contact API

Assumptions:	Mentor has a valid LinkedIn account	
Notes and Issues:	A developer relationship is required for successful use of the Full Contact API. A developer key must be received from Full Contact before the system can use their API.	

Use Case Sub-diagram [Michael Bernabei]:



Use Case ID:	FR-005		
Use Case Name:	Save Company and Mentor Meeting		
Created By:	Michael Bernabei	Last Updated By:	
Date Created:	Feb 22, 2016	Date Last Updated:	

Actor:	Administrator	
Description:	Save a meeting with a mentor and a company in the database.	
Preconditions:	 Administrator has created a link between a given mentor and a company. The Mentor, Company, and Meeting information are received on the backend. 	
Postconditions:	Meeting interaction between the company and the mentor are stored in the database.	
Priority:	Critical	
Frequency of Use:	Daily	
Normal Course of Events:	 The administrator creates a meeting between a mentor and a company. The company, mentor, and meeting information are checked for time conflicts. If no time conflicts exist the information is stored in the database. 	
Alternative Courses:	 Time conflicts are found and the administrator is alerted. Mentor and companies are alerted about time conflicts. 	
Exceptions:	Time conflict exception	
Includes: Create a company and mentor meeting Check for time conflicts		
Special Requirements:	s: Human in the loop	
Notes and Issues:	<u> </u>	

Use Case ID:	FR-004		
Use Case Name:	A mentor's mentoring history must be stored in the database.		
Created By:	Michael Bernabei	Last Updated By:	
Date Created:	Feb 22, 2016	Date Last Updated:	

Actor:	Administrator, Company	
Description:	A mentor's meeting interactions history must be shown	
Preconditions:	Mentor has mentored at least one company	
Postconditions:	Mentor's mentoring history is stored in the database	
Priority:	High	
Frequency of Use:	Weekly	
Normal Course of Events:	 Mentoring confirmation from the company and mentor is received. The administrator will then create a link between the mentor and company indicating successful mentoring occurred. The system will then store the link in the database. 	
Alternative Courses:	No mentoring confirmation is received.	
Exceptions:	Company or Mentor information is not found in the database.	
Includes:	 Confirm the mentor mentored a company Get mentor history Get company history 	
Special Requirements:	Human in the loop	
Assumptions:	 Mentor has mentored at least one company Company has been mentored by at least one mentor 	
Notes and Issues:	A human in the loop is required to ensure that a company successfully mentored a company.	

Use Case ID:	UR-003		
Use Case Name:	Admin editing usage rights		
Created By:	Michael Bernabei	Last Updated By:	

Feb 22, 2016 Date Last Updated:

Actor:	Admin, Mentor
Description:	A user that signs in with administrative user rights will be able to edit all mentor profiles.
Preconditions:	There is at least one mentor stored in the database
Postconditions:	At least one mentor profile has been edited by the administrator
Priority:	Critical
Frequency of Use:	Weekly
Normal Course of Events:	 A user signs in using a valid administrator account. The administrator sees a settings icon which allows the user to edit all other mentor accounts in the system.
Alternative Courses:	User fails to successfully sign in as administrator
Exceptions:	There aren't any mentor profiles stored in the database
Includes:	Display Administrative Profile View
Extends:	Logon to System
Special Requirements:	None
Assumptions:	A user has already successfully created an Administrative account.
Notes and Issues:	None

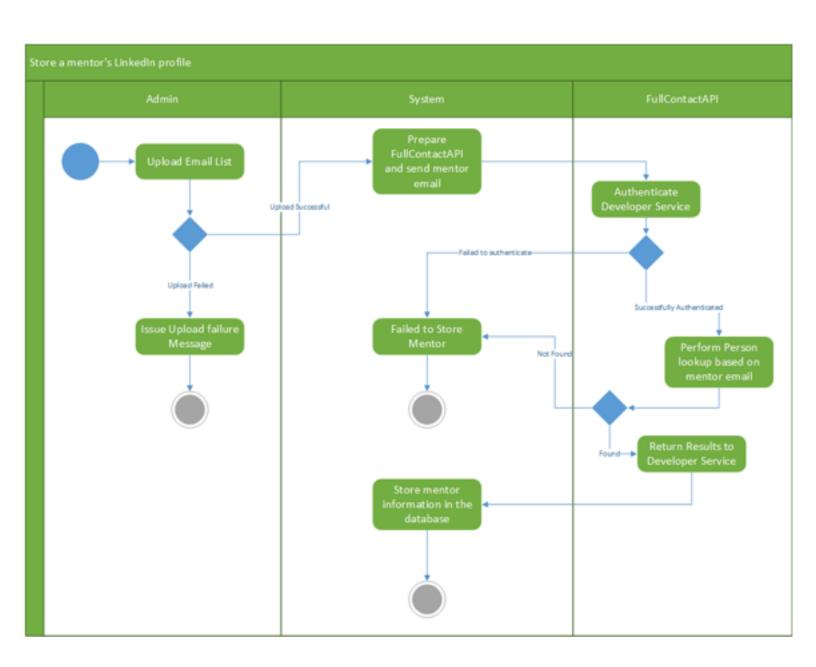
Activity Diagram [Michael Bernabei]:

Requirement ID: FR-002

Use Case ID: Store a mentor's LinkedIn profile

Use Case Description: Store a mentor's LinkedIn profile in the database

Person Who Implemented: Michael Bernabei



Database Design:

Mission Statement

The purpose of the Mentor database is to store data on mentors and use the information stored in the database as means to determine how to best pair mentors with companies.

Data Storage: SQL Database

Classes:

- The MentorModel class will persist information about the mentors
- The CompanyModel class will persist information about the companies
- The User class will persist information about the system users

Identified Entities/Subjects

- Mentor
- Mentor Contact Information
- Contact Method
- Status
- State
- Address
- Company
- Meeting
- Skill
- Feedback
- Rating
- Email
- User
- System Role

Mentors

Name	Туре	Description
Mentor ID	int	A unique identification number given to all mentors in the system.
Lastname	char(n)	The last name of a mentor.
Middlename	char(n)	The middle name of a mentor.
Firstname	char(n)	The first name of a mentor.
LinkedIn Email Address	char(n)	A mentor's LinkedIn email address.

Name	Туре	Description
Rating	foreign key	The rating value a mentor receives from a company.
Feedback	foreign key	The feedback a mentor receives from a company they mentored.
Bio	text	The biographical information a mentor provides to the system.
Preferred Contact Method	foreign key	The Mentor's preferred way to be contacted.
Contact Information	foreign key	A mentor's contact information.
Status	foreign key	The current status of a mentor, e.g. is the mentor busy, available, etc

Mentor Contact Information

Name	Туре	Description
Contact ID	int	A unique contact ID issued for every mentor added to the system.
Mentor Name	foreign key	The mentor's name.
Phone Number	int	The mentor's number.
Address	foreign key	Contact address for a mentor.
Email	foreign key	The email address of the mentor.

Status

Name	Туре	Description
Status ID	int	A unique status ID for each status type.
Status Value	int	A status value indicating the current status of an entity.

State

Name	Туре	Description
State ID	int	A unique ID for every state.
Name	char(n)	Name of the state.
Abbreviation	char(2)	State abbreviation.

Address

Name	Туре	Description
Address ID	int	The unique identification for addresses.
City Name	char(n)	Name of City in which the mentor resides.
Zip Code	int	Zip code.
State	foreign key	The state.
Street	char(n)	Street number.

Company

Name	Туре	Description
Company ID	int	Unique identification number which identifies individual companies.
Name	char(n)	Name of the company.
Address	foreign key	The address of the company.

Meeting

Name	Туре	Description
Meeting ID	int	Unique identification number which identifies individual meetings.
Mentor Name	foreign key	The name of the mentor attending the meeting.
Company Name	foreign key	The name of the company attending the meeting.
Date	datetime	The date of the meeting.

Skill

Name	Туре	Description
Skill ID	int	Unique identification number which identifies individual skills.
Skill Name	char(n)	Name of the skill.

Feedback

Name	Туре	Description
Feedback ID	int	Unique identification number which identifies individual feedback.
Feedback	char(n)	Feedback provided by a companies experience with a given mentor.
Mentor Name	foreign key	The name of the mentor for which the feedback is for.
Company Name	foreign key	Name of the company which provided the feedback
Date	datetime	The date for which the feedback was provided.

Rating

Name	Туре	Description
Rating ID	int	Unique identification number which identifies individual rating.
Rating Value	int	The rating value

Email

Name	Туре	Description
Email ID	int	The unique identification for email addresses.
Email Address	char(n)	Email addresses.

User

Name	Туре	Description
User ID	int	Unique ID for system user names.
User Login Name	char(n)	The login name for a user.

User Role

Name	Туре	Description
Role ID	int	Unique ID for system role types.
Role Type	char(n)	The specific type of role a user of the system can have.

Relationship Calculation Table

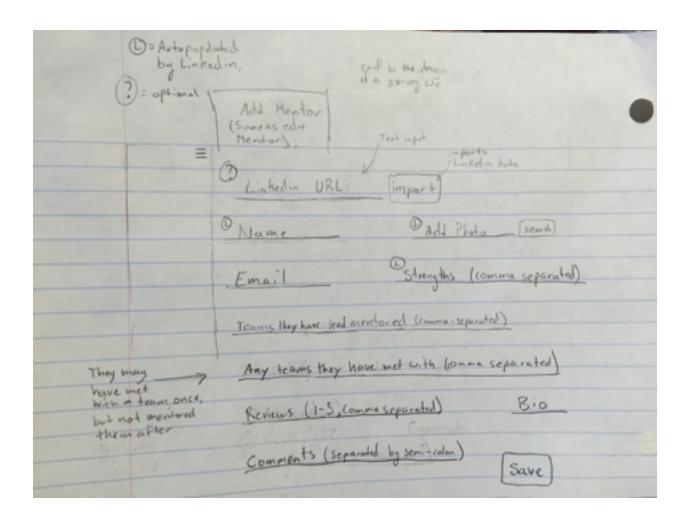
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Database UML Design Diagram

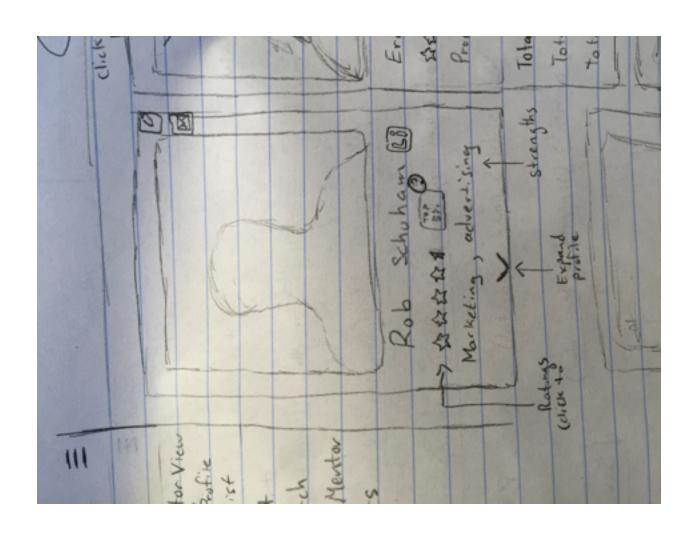


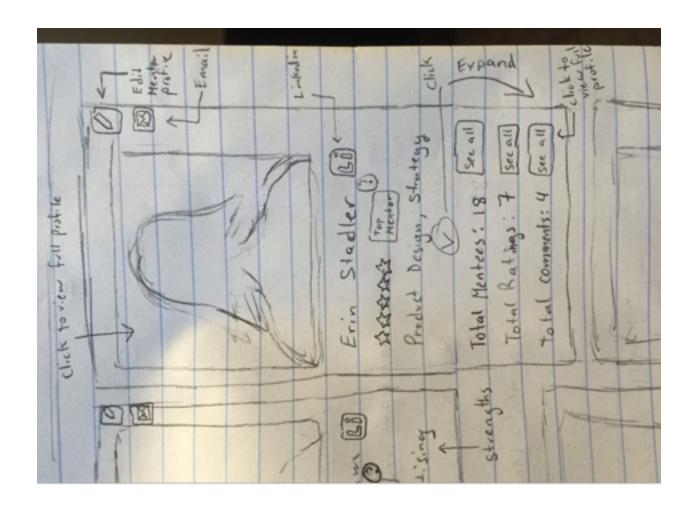


UI Mockups:

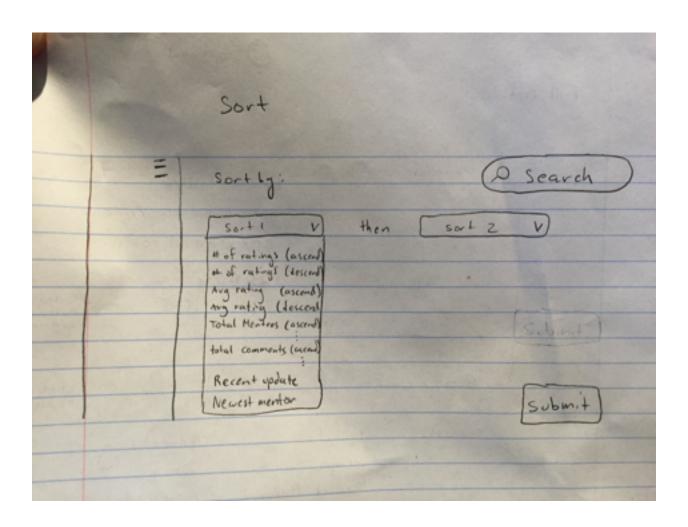


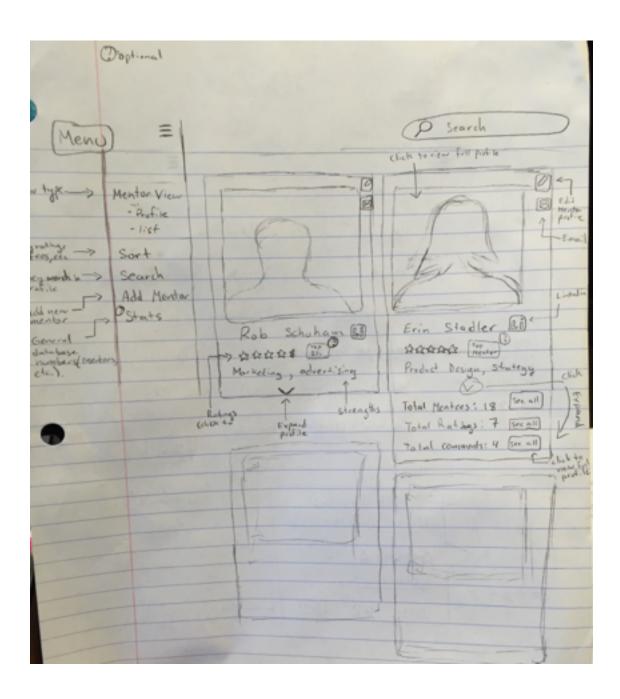
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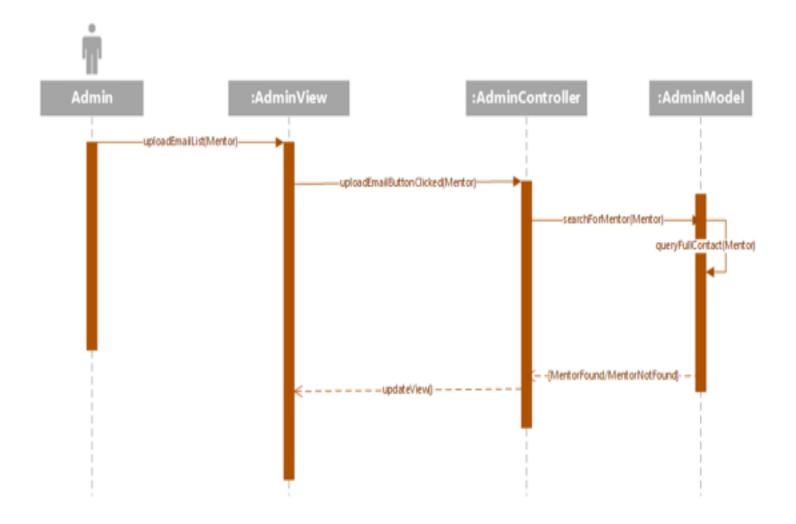
User Interactions [Michael Bernabei]:

Requirement ID: FR-002

Use Case ID: Store a mentor's LinkedIn profile

Use Case Description: Store a mentor's LinkedIn profile in the database

Person Who Implemented: Michael Bernabei



Class Diagram:

Class Diagram exists in highest level of repository, it is labeled ClassDiagram.png.