

Assignment 3: Individual Full Design and Specification

Job Search Tracking

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1 Semantic Specification

Function Recording information on objects

Parameters

1. Object to be acted upon (person, company, etc)
2. Information to be recorded (Name, address, etc)

Description An entry is either edited or created, with its fields populated by the information the user provides. If relevant, new links are made between this object and other relevant objects (companies, jobs).

Feedback The user is shown a summary of the newly created/edited object, while highlighting the object on the graph.

Errors This should not cause errors - it is the action that the user will take many times in using this program, so it should be seamless and flawless as much as possible.

Function Specify custom object attributes

Parameters

1. Object to add parameter to
2. Custom parameter key
3. Parameter value

Description Along with the automatic object attributes (name, address), the user is able to specify their own, custom attributes for any object.

Feedback The user is shown their custom parameter populated with the value they requested on a non-editable summary screen.

Errors

1. Key collision, if the user attempts to populate two attributes with the same key

Function Specify object relationships

Parameters

1. Objects to create the relationship between (note and person relevant to the note, someone and their boss)
2. Relationship name (note is about John Doe, Jane Doe is John Doe's boss)

Description The user is able to specify links between objects, for example a person works at a company for which an entry exists. There is a field that the user can fill in for each object for which such a relationship can exist. The user fills in that field, possibly selecting a suggestion generated by the system.

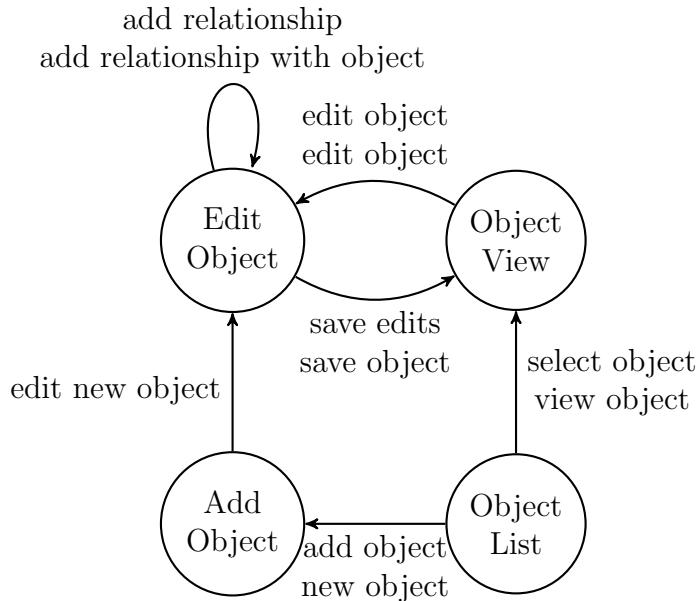
Feedback A text block will be shown with the relationship name, and the relevant object on the summary screen for the objects for which the relationship exists. Perhaps a graph representation can also be created, showing objects as nodes and relationships as edges.

Errors

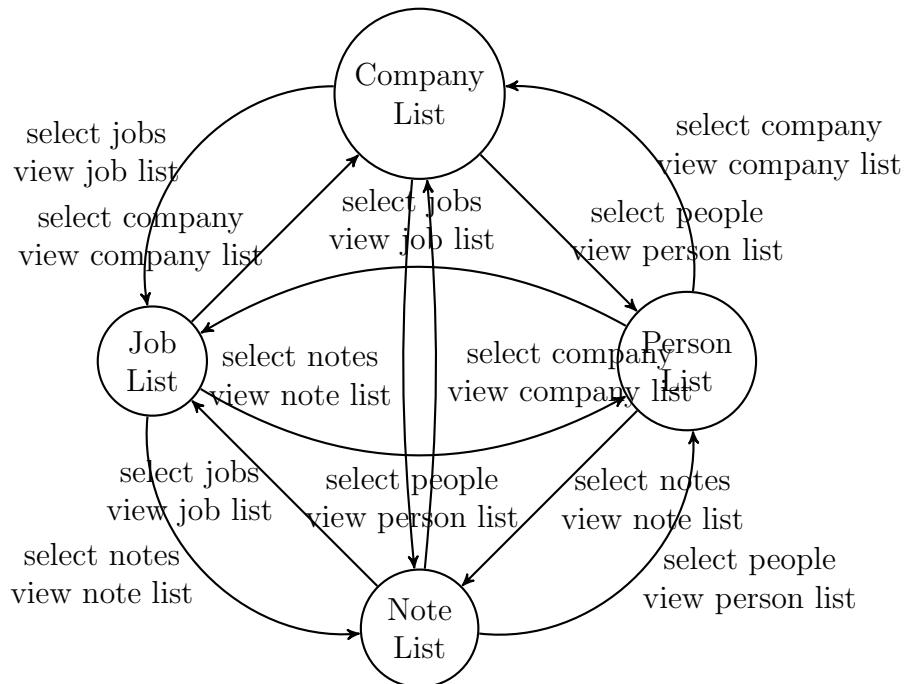
1. Object does not exist → user should be given the option to create the object.

2 Syntactic Specification

2.1 For each object (company, person, job, note)



2.2 Transitions Between Object Lists



3 Lexical Design Specification

Token	System Operations
view object	Retrieve object attributes and display them on screen
edit object	Allow the user to edit object attributes, adding new ones if needed. Do not save changes until confirmed by user.
new object	Create a new object, immediately begin editing it.
save object	Save object and its attributes in the backend database.
add relationship	Save an object attribute, with the value being another object id. Like any other edit, only save changes after user confirms save.
view object list	Retrieve a list of objects of the specified type. Display them, along with pertinent identifying information.

4 Storyboard

This storyboard depicts adding a new contact, along with their company - it was my second usage scenario from the previous assignment.

Note that boxes with a single edge are text boxes (like a form) while boxes with a double edge are buttons. For example, in Figure 2, the squares along the top of the image are buttons, below that they are text boxes, until the save box at the bottom right.

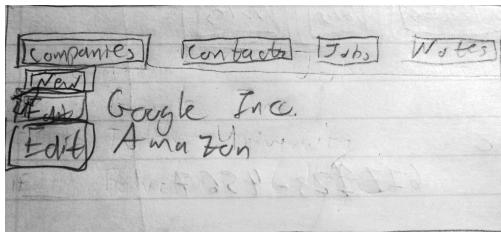


Figure 1: Starting at the company list page

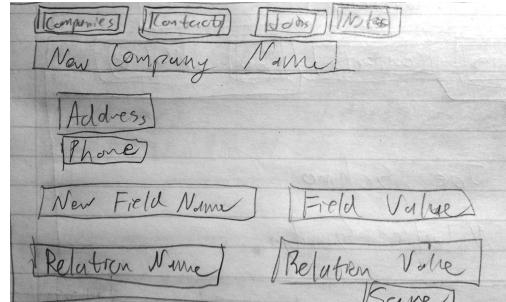


Figure 2: The blank new company page.

Companies Contacts Jobs Notes

Widgets Inc.
123 Main St
Boston MA
617-123-4567

Product: Widgets

New Field Name: Field Value

Relation Name: Relation Value

Save

Figure 3: The new company, populated. Notice the custom field 'Product' with the value 'Widgets'.

Companies Contacts Jobs Notes

Edit

Widgets Inc.
123 Main St
Boston MA
617-123-4567

Product: Widgets

Figure 4: The company is saved, and we are shown the company information, but not editable.

Companies Contacts Jobs Notes

New

Edit Joe Schmo

Edit Natalie Smith

Figure 5: Now we are viewing the contact list, about to click on the "New" contact button.

Companies Contacts Jobs Notes

Contact Name
Address
Phone

New Field Name: Field Value

New Relation Name: Relation Value

Save

Figure 6: This is the new contact form, ready to be populated.

Companies Contacts Jobs Notes

Travis Doe

Address

617-987-6543

LinkedIn Profile: http://www.linkedin.com/travis12

New Field Name: New Field Value

Employee: Widgets Inc.
New Relation Name: New Relation Value

Save

Figure 7: The contact is populated. Notice both a custom field ("LinkedIn profile") and a relation to the "Widgets Inc." company.

Companies Contacts Jobs Notes

Edit

Travis Doe
617-987-6543
LinkedIn Profile: http://www.linkedin.com/travis12

Employee: Widgets Inc.

Figure 8: We click save, and are brought to the contact page for viewing, not editing. Notice that since we did not provide an address, it does not appear here.

5 User Documentation

Hello, and welcome to *Job Tracker 34,000TM©*, your one stop for all of your job hunting and networking needs.

This system is easy and fun to use! To record some new information, simply start by clicking on the type of thing you would like to add at the top of the page. This will bring you to a list of the companies, people, jobs or notes that you have already recorded. To add a new one, click the "New" button just below the category buttons. Then, fill in information on the form that appears.

If you want to edit an entry that you've entered in the past, start by navigating to the correct category page, just as before, finding the entry you want to edit on the list, and pressing the enter button. Then, just as before, fill out the form with your new information.

Job Tracker 34,000TM©'s strength comes in two forms. Firstly, when you're editing or creating a new entry, you can add any sort of information you want by creating a custom field. This can be anything from a like to someone's linkedin profile to their favorite food. Secondly, you can like different objects together, so you can record which company someone works at, or who you contact is for the job you're pursuing.

Speaking of pursing jobs, let's go through how that process might work. You find a company you like, so you create a company entry for it. Then, you find a job you want to apply to, so you make a job entry for that position, linking it to the company it's at. When you send you resume off for that job, make a note related to the job, so you don't forget that they have your resume. If you hear back, make a 'contact' entry for the person who reaches out to you, and make notes recording what you've told them and what they've told you.

Hopefully it can make your job hunt faster, easier, and more organized, with the help of *Job Tracker 34,000TM©*!

6 Task-Command Analysis

6.1 Inserting new object, tabbing between fields

Description	Action
Clicking to object list screen	hand movement across device mouse click
Clicking new object button	hand movement across device mouse click
Filling in fields	hand movement from mouse to keyboard keyboard presses
Clicking save	hand movement from keyboard to mouse hand movement across device mouse click

Action	Total
button press	4
hand movement across device or screen	3
hand movement between screen and other part of device	2

6.2 Inserting new object, clicking between fields

Description	Action
Clicking to object list screen	hand movement across device mouse click
Clicking new object button	hand movement across device mouse click
Clicking and filling in field	hand movement across device mouse click hand movement from mouse to keyboard keyboard presses
Clicking save	hand movement from keyboard to mouse hand movement across device mouse click

Action	Total
button press	3 + 2 * num fields
hand movement across device or screen	3 + 1 * num fields
hand movement between screen and other part of device	num fields

6.3 Editing Object

Description	Action
Clicking to object list screen	hand movement across device mouse click
Clicking new object button	hand movement across device mouse click
Filling in fields	hand movement from mouse to keyboard keyboard presses
Clicking save	hand movement from keyboard to mouse hand movement across device mouse click

Action	Total
button press	4
hand movement across device or screen	3
hand movement between screen and other part of device	2

6.4 Adding relation to Object

Description	Action
Clicking to object list screen	hand movement across device mouse click
Clicking object's edit button	hand movement across device mouse click
Filling in relation name	hand movement across device hand movement from mouse to keyboard keyboard presses
Filling in relation value	hand movement from keyboard to mouse hand movement across device mouse click
Clicking save	hand movement across device mouse click

Action	Total
button press	5
hand movement across device or screen	4
hand movement between screen and other part of device	2

This is a relatively simple set of procedures, and a generally simple system overall. I do not think that this paper analysis reveals any glaring problems with the current UI design.