



# USE CASE DOCUMENT

8/23/2013

Graduate Capstone



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# 1 Introduction

This document is a resource containing all the use cases that are involved with the project.

## 1.1 Intended Document

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This document is intended for individuals with a medium level of technical background.

## 1.2 Resources

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None

## 1.3 Revision History

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Name	Date	Reason For Change	Version
Andy Bottom	04/12/2013	Started making the document; Created First Couple Use Cases	0.1
Andy Bottom	04/16/2013	Continued making document. Implemented the next several use cases and requirements	0.1.1
Andy Bottom	04/27/2013	Implement almost all of the use cases and diagrams	0.2
Andy Bottom	05/01/2013	Finished first version	1.0
Andy Bottom	08/18/20113	Proofread. It all looks good	1.1

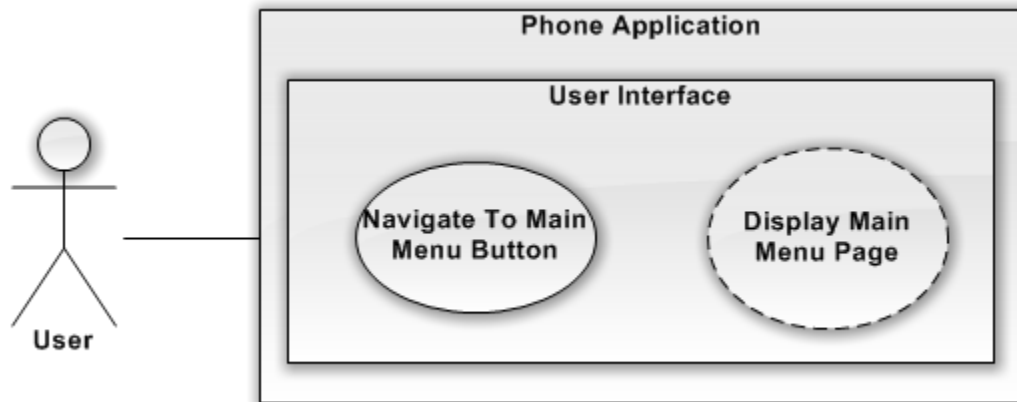


## 2 Use Cases

Below is a list of use cases for the phone application, web services and the web admin.

### 2.1 Phone Application

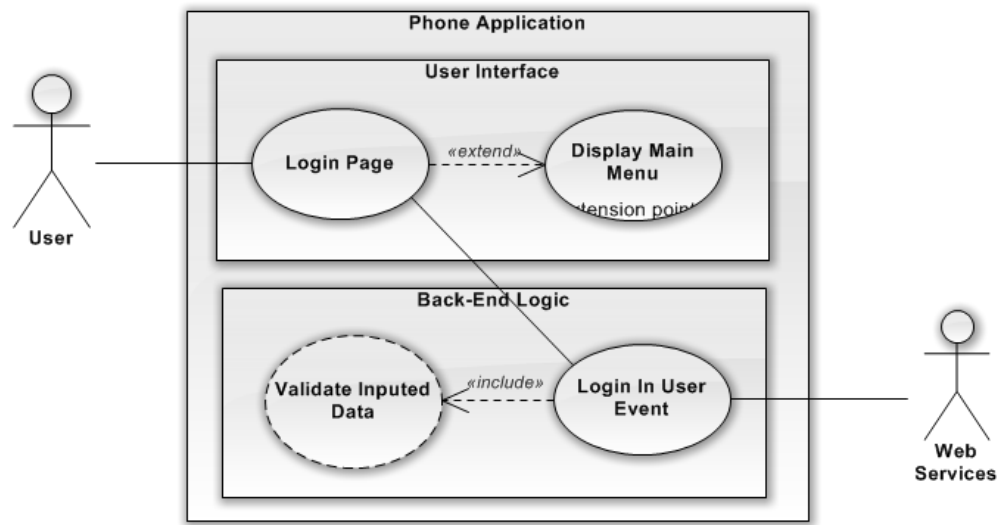
#### UC-01: See Main Menu



Use Case Name	UC-01: See Main Menu
Purpose	How the user can get to the main menu
Summary	The User will get to the main menu
Work Products	Phone Application
Users/Actors	User
Entry Criteria	User is viewing a screen in the application.
Preconditions	A User is on any screen in the application.
Basic Course of Events	01: User hit the home / menu button on the phone. 02: The main menu screen will be displayed
Alternative Paths	AP-01: The application is not started and the user starts the application. AP-02: The application should show the main menu on start-up
Postconditions	The about us page content has been updated
Exit Criteria	Admin would see the content and be happy with it.



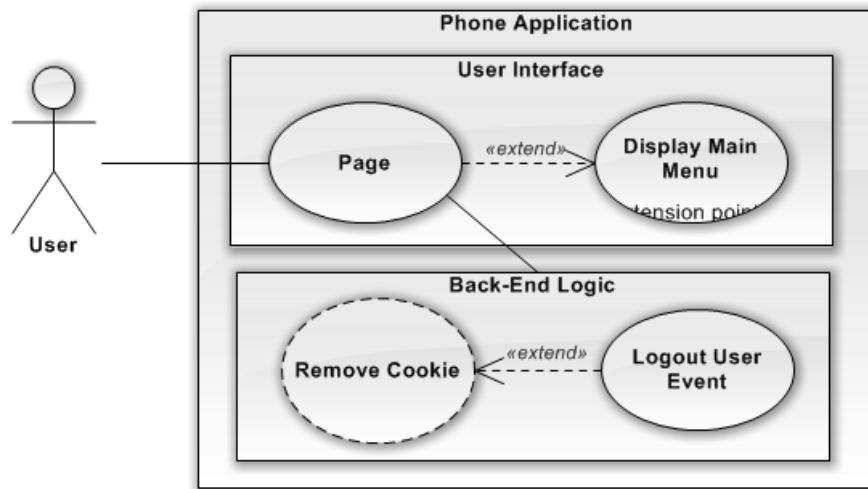
## UC-02: User Sign In



Use Case Name	UC-02: User Sign In
Purpose	Gives the user the ability to log in
Summary	Sign In Feature
Rationale	This way a user can take advantage of better features of the system.
Work Products	Phone Application
Users/Actors	User; Web Services
Entry Criteria	The User has navigated to the Sign In Screen
Preconditions	The User is not signed in already in the device
Basic Course of Events	01: User enters their username 02: User enters their password / pin 03: User presses the submit button 03-1: Upon Submit, the application will verify the inputs from the user. 03-2: Upon a successful verification it sends sign in request to the server. 04: User waits for response to return. 04-1: The services will verify that the user and password match. 04-2: Upon a successful match, the services will return the user information to login. 05: Successful Credentials received 06: The phone creates a cookie to store the logged in user. 07: User sees successful login message and is directed to the main menu.
Alternative Paths	AP-03-1: If a user does not submit a valid username or password, upon submit, it will display an error to the user. (Such as blank would cause error) AP-04-2: Upon a unsuccessful match the system returns error back and the error is then sent to user to try again.
Postconditions	The user is on the main menu page and is logged in to their user account.
Exit Criteria	User is logged in.



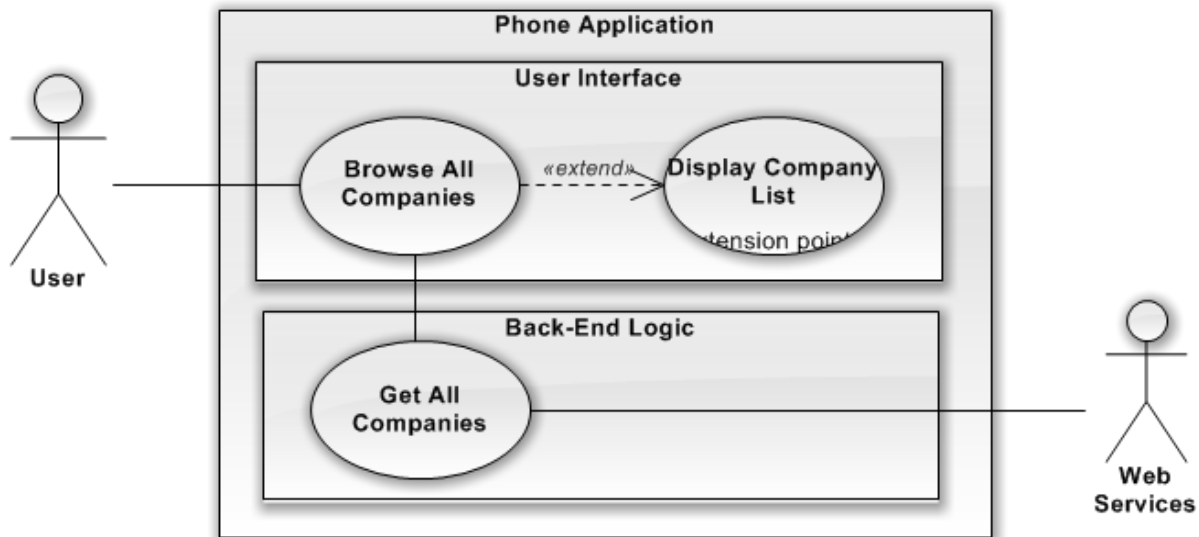
## UC-03: User Sign Out



Use Case Name	UC-03: User Sign Out
Description	The user can sign out of their account in the application and become just an anonymous user
Work Products	Phone Application
Users/Actors	User
Assumptions	The User has navigated to the Sign Out Screen
Preconditions	The User is already signed in
Steps	01: User Clicks the Logout Button 01-1: Message Prompts are you sure. 01-2: User clicks accept 02: Cookie is deleted from phone. 03: Message Returned saying that they were successfully logged out. 04: User returned to main menu
Variations	AP-02: There may be a need to send information to the web service to set some sort of properties. In this case, they will need to wait for this to successes. AP-01-2: If user clicks cancel, then the logout process is stopped and the user is returned to the screen they were on and are still logged in.
Postconditions	The user is no longer logged in on the application.
Exit Criteria	User is logged out.
Notes	There may or may not be needed information to store about logout information. So Web Services at this time will not be updated.



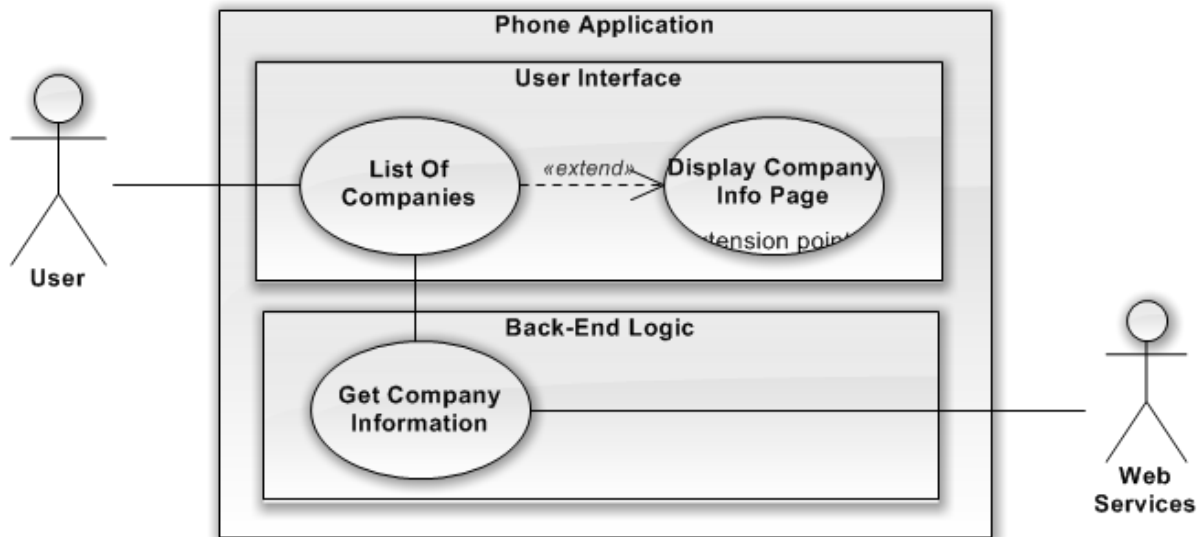
## UC-04: Browse All Companies



Use Case Name	UC-04: Browse All Companies
Description	A Screen that lists all the companies that are in the system.
Work Products	Phone Application
Users/Actors	User; Web Services
Assumptions	The User navigates to Browse All Companies Page
Preconditions	None
Steps	01: The User Navigates to the Browse All Companies Page 01-1: Sends request to webserver to obtain a list of all the companies 02: User sees loading icon, to wait. 02-1: The app receives the requests, parses it and outputs to user 03: User sees a list of companies
Variations	AP-02-1: If the app receives error, then it should handle error to try again or that it is not available. AP-01-1: If there is a local cache of the companies, then it should parse that.
Postconditions	User sees a list of companies
Exit Criteria	Companies are displayed
Notes	The ability to sort companies by alpha, category type, etc... would be nice.
References	UC-09;



## UC-05: View Company Information

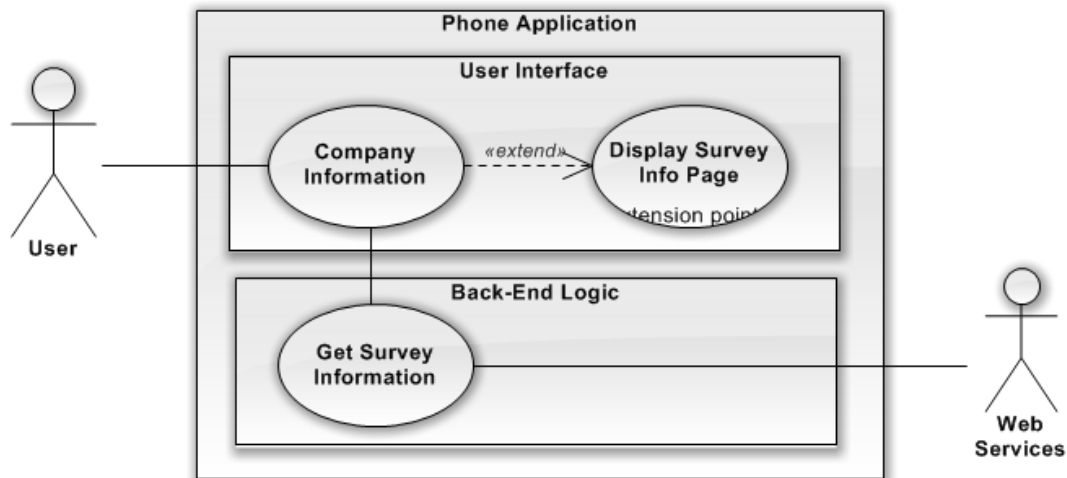


Use Case Name	UC-05: View Company Information
Description	Displays a screen containing background information about a specific company
Work Products	Phone Application
Users/Actors	User
Assumptions	The User chooses a company to see the information about
Preconditions	The user has chosen a company
Steps	01: The User Chooses a company to see information about. 01-1: A Request is sent to web server to get information about the company 02: User sees waiting icon 02-1: App receives information and parses it and outputs to user. 03: The Company information page is displayed to the user
Variations	AP-02-1: If the app receives error, then it should handle error to try again or that it is not available. AP-01-1: If there is a local cache of the company, then it should parse that.
Postconditions	User sees the Company Information Page
Exit Criteria	Company is displayed
Note	If the company is already stored in cache, then there would be no need to query the web services again.





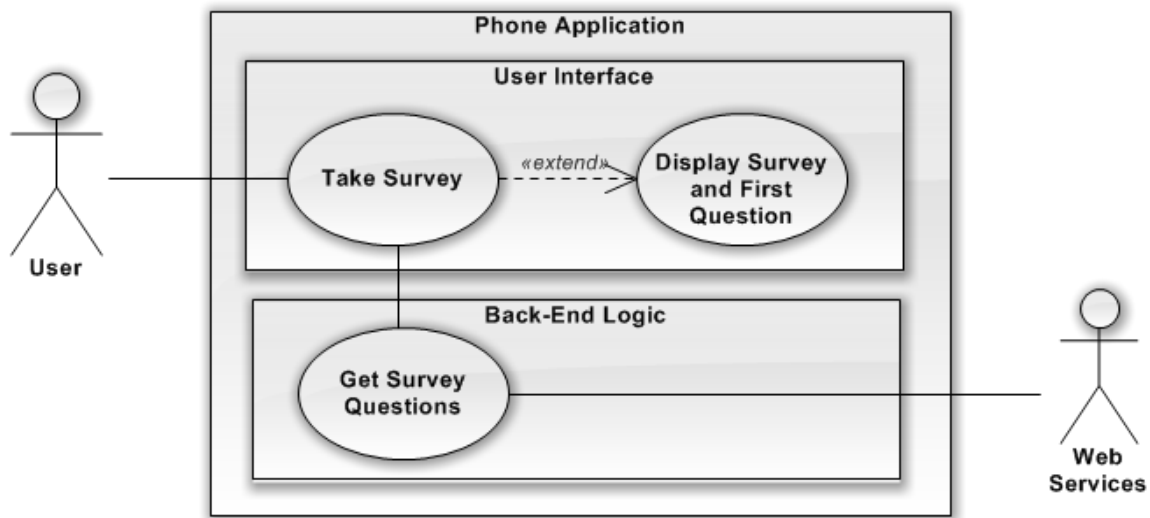
## UC-06: View Survey Information



Use Case Name	UC-06: View Survey Information
Description	Displays a screen containing information about a specific Survey of a Company
Work Products	Phone Application
Users/Actors	User
Assumptions	The User chooses a Survey to see further information
Preconditions	The user has chosen a survey
Steps	01: The User Chooses a survey to see information about. 01-1: A Request is sent to web server to get information about the company 02: User sees waiting icon 02-1: App receives information and parses it and outputs to user. 03: The Survey information page is displayed to the user
Variations	AP-02-1: If the app receives error, then it should handle error to try again or that it is not available. AP-01-1: If there is a local cache of the survey, then it should parse that.
Postconditions	User sees the Survey Information Page
Exit Criteria	Survey Information is displayed
Notes	If the survey information is already stored in cache, then there would be no need to query the web services again.



## UC-07: Take Survey



Use Case Name	UC-07: Take Survey
Description	Start the Survey
Work Products	Phone Application
Users/Actors	User
Assumptions	The User is on the Survey Page
Preconditions	The User is on a specific survey for a specific company
Steps	<p>01: The User Chooses to Start the Survey</p> <p>01-1: A Request is sent to web server to get the survey questions. It sends along user's logged in ID if it is logged in.</p> <p>02: User sees waiting icon</p> <p>02-1: App receives information and parses it and outputs to user.</p> <p>03: The Survey Questions will be displayed to the user to take the survey</p>
Variations	<p>AP-01-1-A: If a user is logged in and then it will receive questions with some answers already filled out since we know the information already.</p> <p>AP-01-1-B: If a user is anonymous then it will receive all questions of the survey</p>
Postconditions	User sees the Survey of a Company
Exit Criteria	Survey is displayed

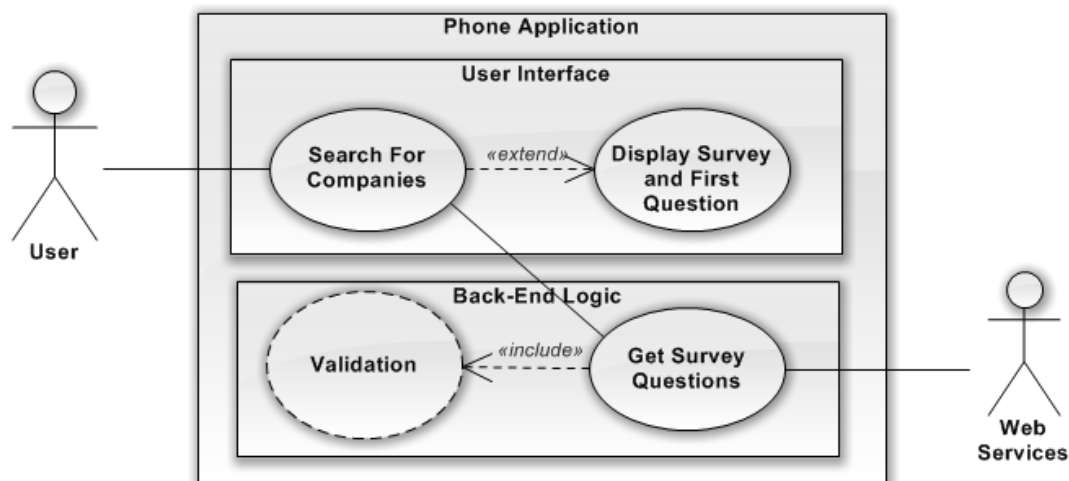


## UC-08: Answer Survey Question

Use Case Name	UC-08: Answer Survey Question
Description	Answering a Question
Work Products	Phone Application
Users/Actors	User
Assumptions	The user is currently taking a survey
Preconditions	A user is taking a unique survey and is on a unique question
Steps	<p>01: A question is displayed to the user along with a input element (radio, select box, textbox, etc...)</p> <p>01-1: A Request is sent to web server to get the survey questions. It sends along a user's logged in ID if it is logged in.</p> <p>02: User sees waiting icon</p> <p>02-1: App receives information and parses it and outputs to user.</p> <p>03: The Survey Questions will be displayed to the user to take the survey</p>
Variations	<p>AP-01-1-A: If a user is logged in and then it will receive questions with some answers already filled out since we know the information already.</p> <p>AP-01-1-B: If a user is anonymous then it will receive all questions of the survey</p>
Postconditions	User sees the Survey of a Company
Exit Criteria	Survey is displayed



## UC-10: User Search for Companies

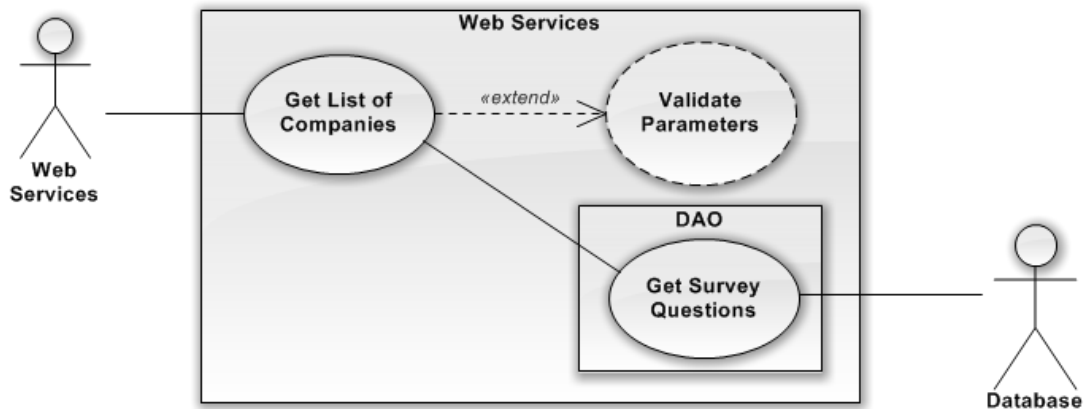


Use Case Name	UC-10: User Search For Companies
Description	User may also use a search to lookup a company. They will use the form to select certain parameters to search on including a search text; company type;
Work Products	Phone Application
Users/Actors	User; Web Services
Assumptions	The User has navigated to the search for company page.
Preconditions	None;
Steps	01: The User fills out the Search for Company Page; 01-01: This may include searching for a string 01-02: Searching by Company Category type. 02: User Clicks the Search button 03: User see's message, "Searching, Please Wait." 03-01: Search is sent to web service along with the parameters; 03-02: Response is received 03-03: The Response is parsed in put into Company Objects 03-04: The company objects will be outputted as a list for the user. 04: The List of Company Results is displayed.
Variations	AP-03-01: If the app receives error, then it should handle error to try again or that it is not available. AP-03-02: If Response contains no company objects, message will say, "There were no companies found. Please Change Search Criteria."
Postconditions	A list of companies has been obtained.
Exit Criteria	User sees the Company Search Results Page.
References	UC-09;



## 2.2 Web Services

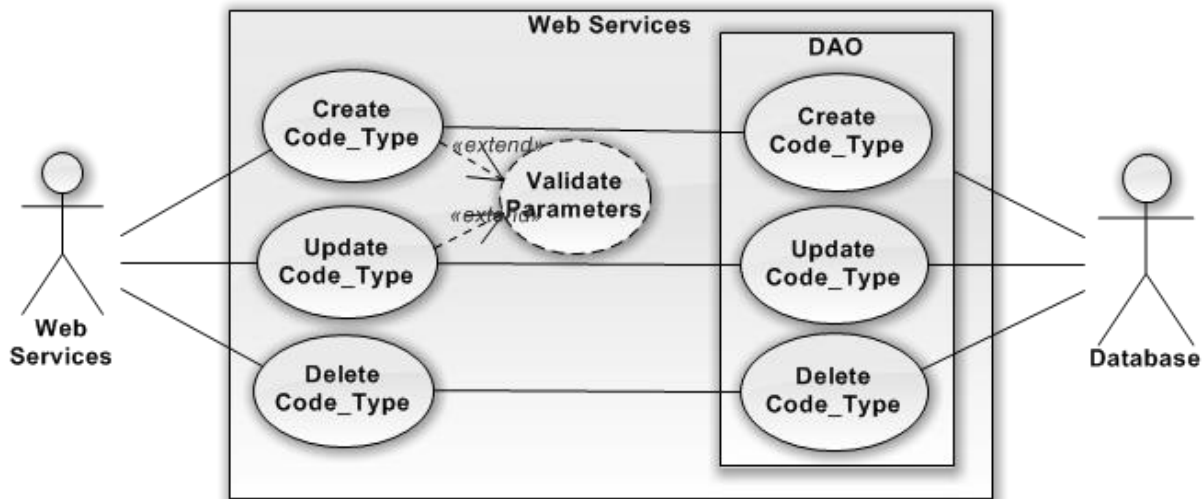
### UC-09: Get List of Companies



Use Case Name	UC-09: Get List Of Companies
Description	The Web Services method that gets call to get a list of Companies pending on the certain criteria
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Search Criteria
Steps	01: Web Services Get List of Companies gets Called 02: Validates received parameters 03: Calls DAO to get list of companies from database and passes the searched criteria 03-01: DAO calls the company table and queries on the received parameters. Returns a list of Company Objects 04: List of Company Objects are returned.
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	A list of company objects is returned
Exit Criteria	Web Services wait for next call
Notes	The types of parameters may include, user favorites, company categories, search based on name or description.



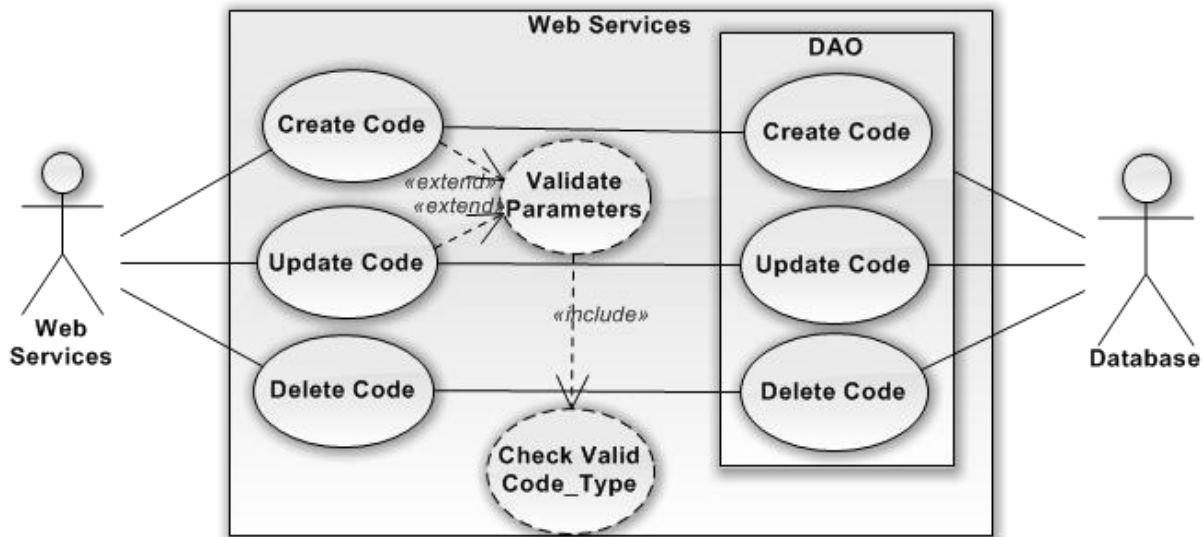
## UC-22: Add / Edit / Delete Code Type



Use Case Name	UC-22: Add / Edit / Delete Code Type
Description	The Web Services method that gets called to create, edit or delete a Code Type Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	01: The Web Service Method Add / Edit / Delete Code Type gets called 02: Validates received parameters 03: Calls DAO to perform the needed logic in the database 03-01: DAO calls the Code_Type table and queries on the received parameters. Returns success message 04: Return Success Message
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Code_Type table has been performed
Exit Criteria	Web Services wait for next call



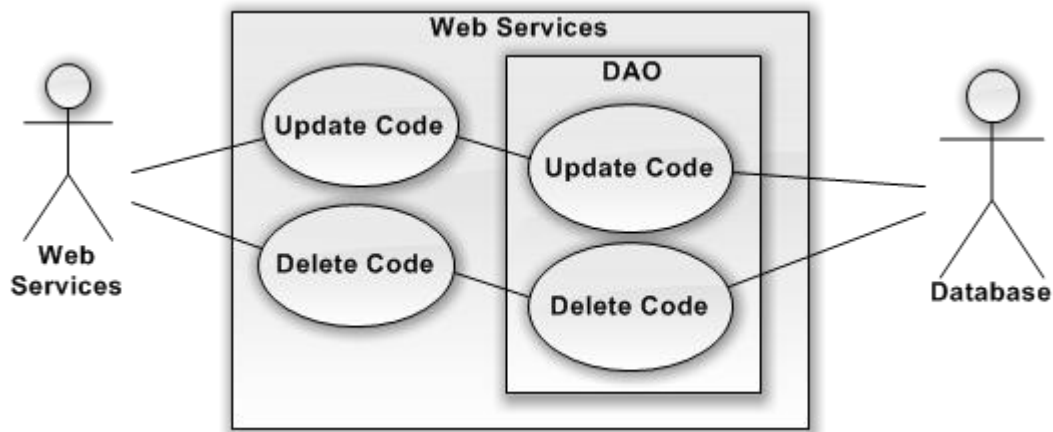
## UC-23: Add / Edit / Delete Code



Use Case Name UC-23: Add / Edit / Delete Code	
<b>Description</b>	The Web Services method that gets called to create, edit or delete a Code Object.
<b>Work Products</b>	Web Services;
<b>Users/Actors</b>	Web Services; Database;
<b>Assumptions</b>	Received Parameters is Validated;
<b>Preconditions</b>	The Method gets called; Receives Certain Parameters Criteria
<b>Steps</b>	01: The Web Service Method Add / Edit / Delete Code gets called 02: Validates received parameters 03: Calls DAO to perform the needed logic in the database 03-01: DAO calls the Code table and queries on the received parameters. Returns success message 04: Return Success Message
<b>Variations</b>	AP-03-01: If can't connect to database, it will timeout and return error.
<b>Postconditions</b>	The correct database action for the Code table has been performed
<b>Exit Criteria</b>	Web Services wait for next call



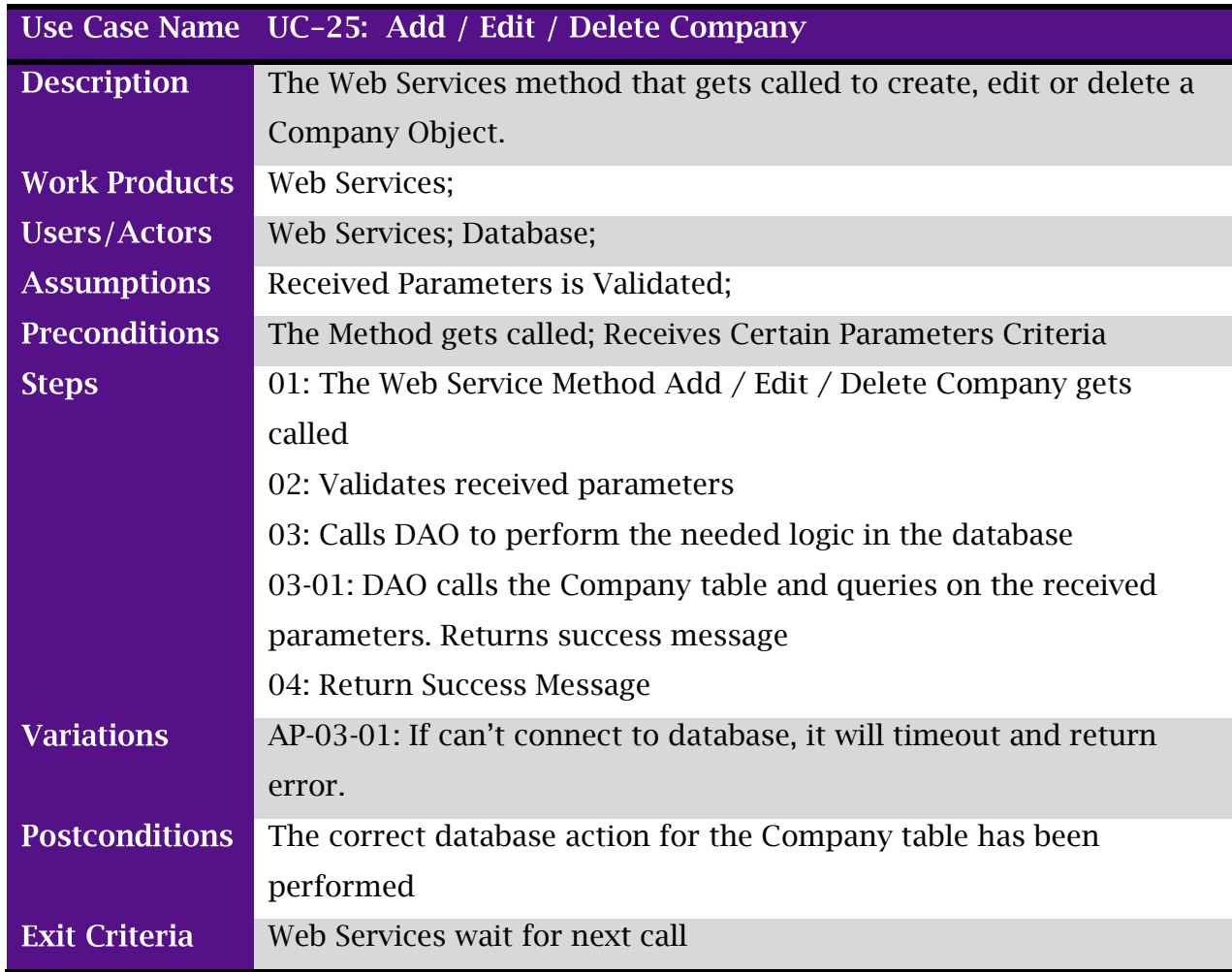
## UC-24: Edit / Delete User



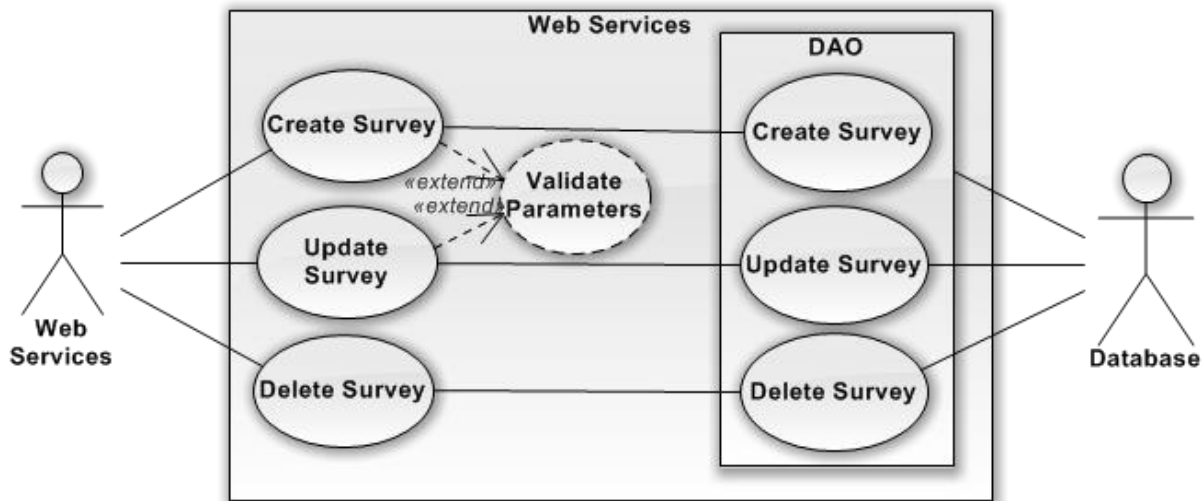
Use Case Name	UC-24: Edit / Delete Code
Description	The Web Services method that gets called to edit or delete a User Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	01: The Web Service Method Edit / Delete User gets called 02: Validates received parameters 03: Calls DAO to perform the needed logic in the database 03-01: DAO calls the User table and queries on the received parameters. Returns success message 04: Return Success Message
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the User table has been performed
Exit Criteria	Web Services wait for next call







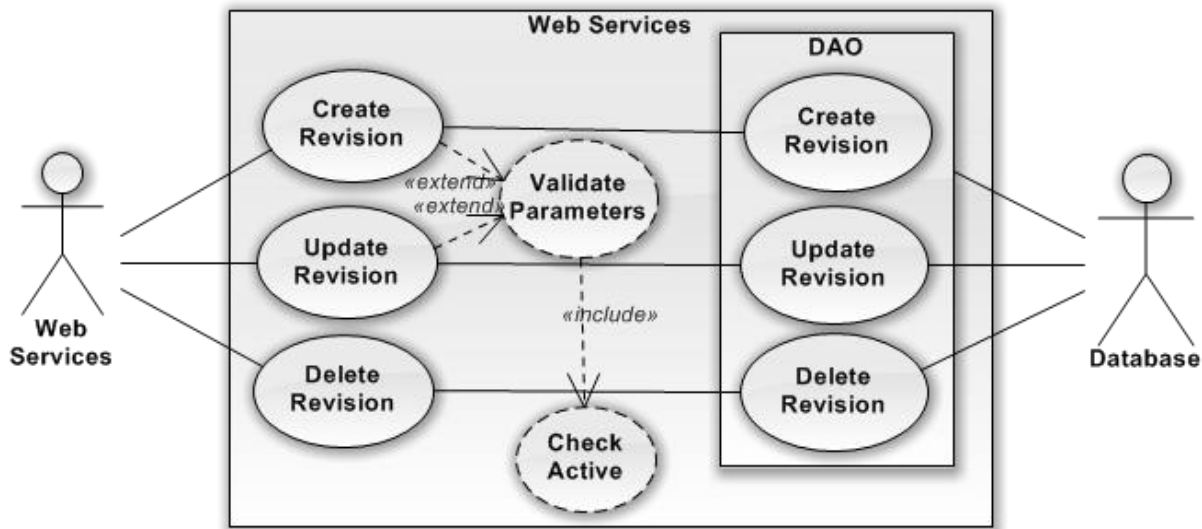
## UC-26: Add / Edit / Delete Survey



Use Case Name	UC-26: Add / Edit / Delete Survey
Description	The Web Services method that gets called to create, edit or delete a Survey Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	01: The Web Service Method Add / Edit / Delete Survey gets called 02: Validates received parameters 03: Calls DAO to perform the needed logic in the database 03-01: DAO calls the Survey table and queries on the received parameters. Returns success message 04: Return Success Message
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Survey table has been performed
Exit Criteria	Web Services wait for next call



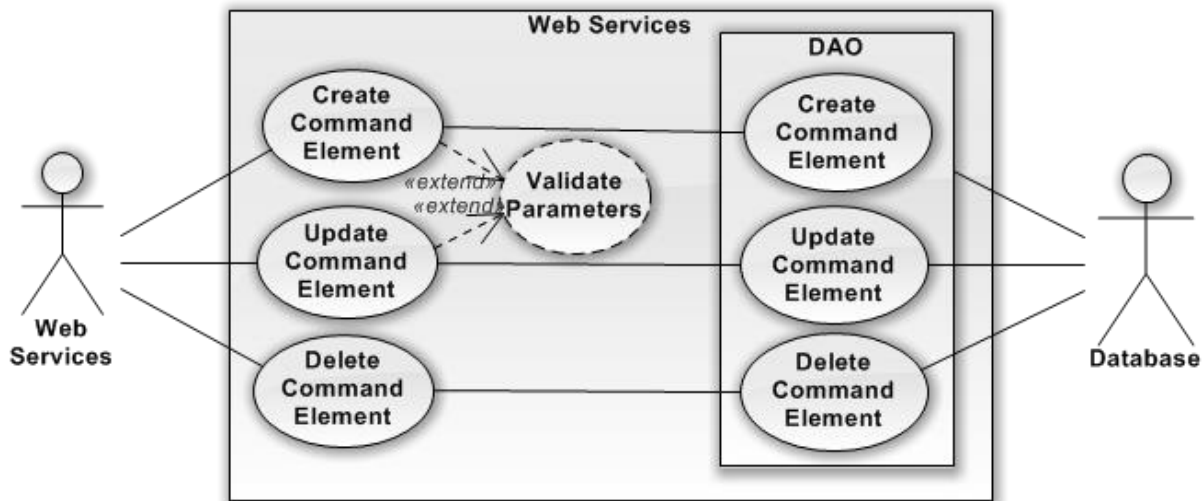
## UC-27: Add / Edit / Delete Revision



Use Case Name	UC-27: Add / Edit / Delete Revision
Description	The Web Services method that gets called to create, edit or delete a Revision Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	01: The Web Service Method Add / Edit / Delete Revision gets called 02: Validates received parameters 03: Calls DAO to perform the needed logic in the database 03-01: DAO calls the Revision table and queries on the received parameters. Returns success message 04: Return Success Message
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Revision table has been performed
Exit Criteria	Web Services wait for next call



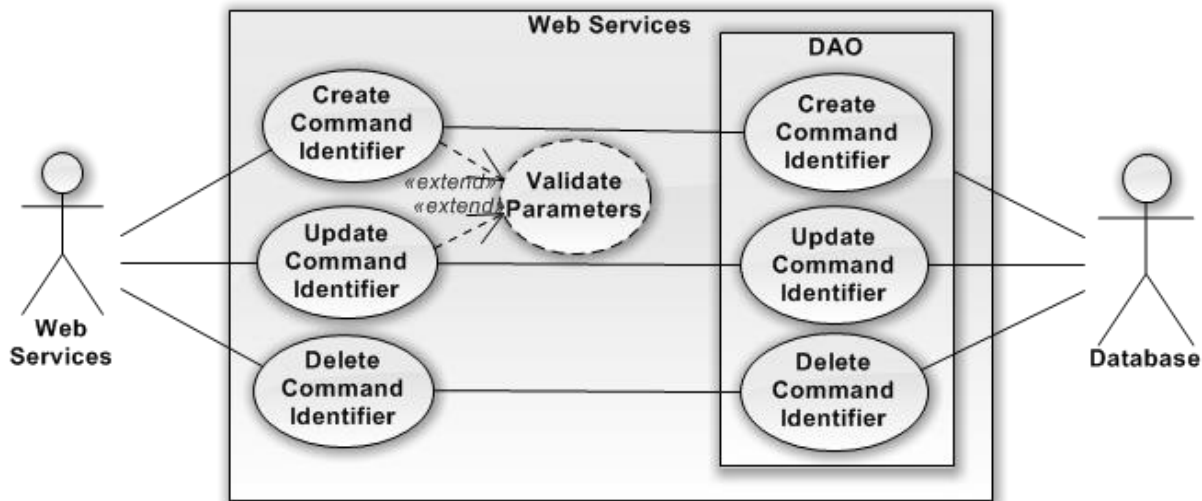
## UC-28: Add / Edit / Delete Command Element



Use Case Name	UC-28: Add / Edit / Delete Command Element
Description	The Web Services method that gets called to create, edit or delete a Command Element Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	01: The Web Service Method Add / Edit / Delete Command Element gets called 02: Validates received parameters 03: Calls DAO to perform the needed logic in the database 03-01: DAO calls the Command Element table and queries on the received parameters. Returns success message 04: Return Success Message
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Command Element table has been performed
Exit Criteria	Web Services wait for next call



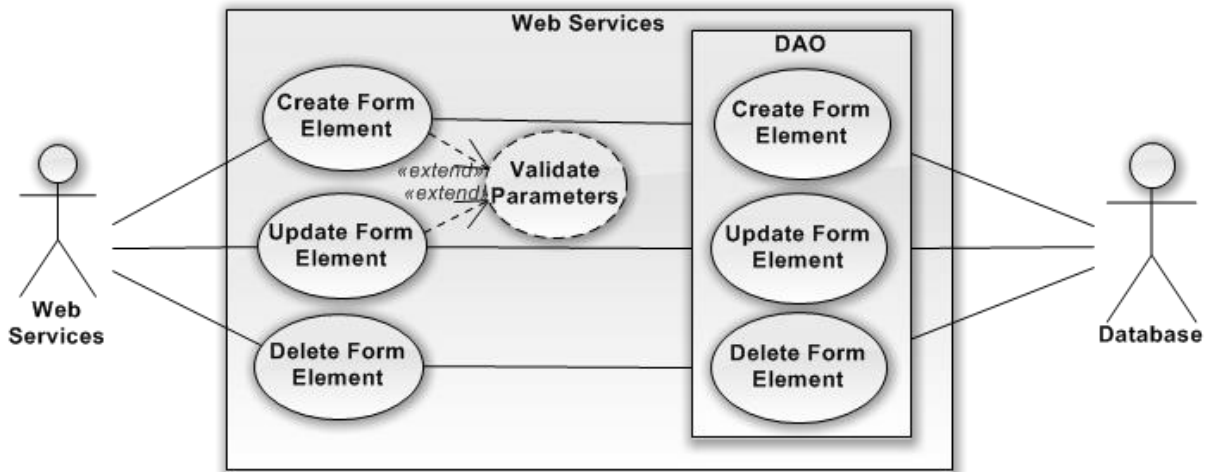
## UC-29: Add / Edit / Delete Command Identifier



Use Case Name	UC-29: Add / Edit / Delete Command Identifier
Description	The Web Services method that gets called to create, edit or delete a Command Identifier Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	<p>01: The Web Service Method Add / Edit / Delete Command Identifier gets called</p> <p>02: Validates received parameters</p> <p>03: Calls DAO to perform the needed logic in the database</p> <p>03-01: DAO calls the Command Identifier table and queries on the received parameters. Returns success message</p> <p>04: Return Success Message</p>
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Command Identifier table has been performed
Exit Criteria	Web Services wait for next call



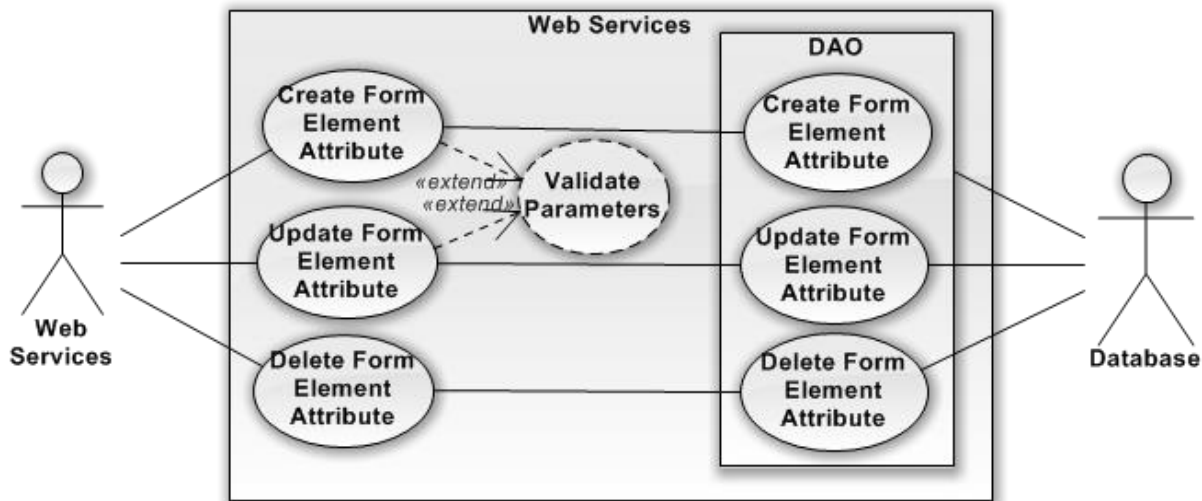
## UC-30: Add / Edit / Delete Form Element



Use Case Name	UC-30: Add / Edit / Delete Form Element
Description	The Web Services method that gets called to create, edit or delete Form Element Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	01: The Web Service Method Add / Edit / Delete Form Element gets called 02: Validates received parameters 03: Calls DAO to perform the needed logic in the database 03-01: DAO calls the Form Element table and queries on the received parameters. Returns success message 04: Return Success Message
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Form Element table has been performed
Exit Criteria	Web Services wait for next call



## UC-31: Add / Edit / Delete Form Element Attribute

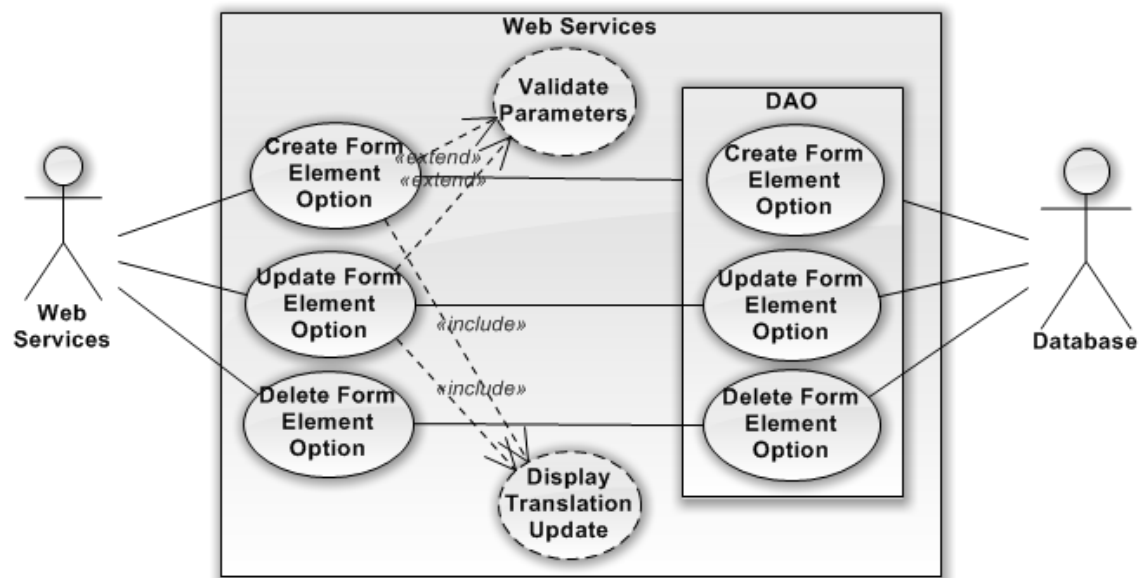


Use Case Name	UC-31: Add / Edit / Delete Form Element Attribute
Description	The Web Services method that gets called to create, edit or delete Form Element Attribute Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	<p>01: The Web Service Method Add / Edit / Delete Form Element Attribute gets called</p> <p>02: Validates received parameters</p> <p>03: Calls DAO to perform the needed logic in the database</p> <p>03-01: DAO calls the Form Element Attribute table and queries on the received parameters. Returns success message</p> <p>04: Return Success Message</p>
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Form Element Attribute table has been performed
Exit Criteria	Web Services wait for next call





## UC-32: Add / Edit / Delete Form Element Option



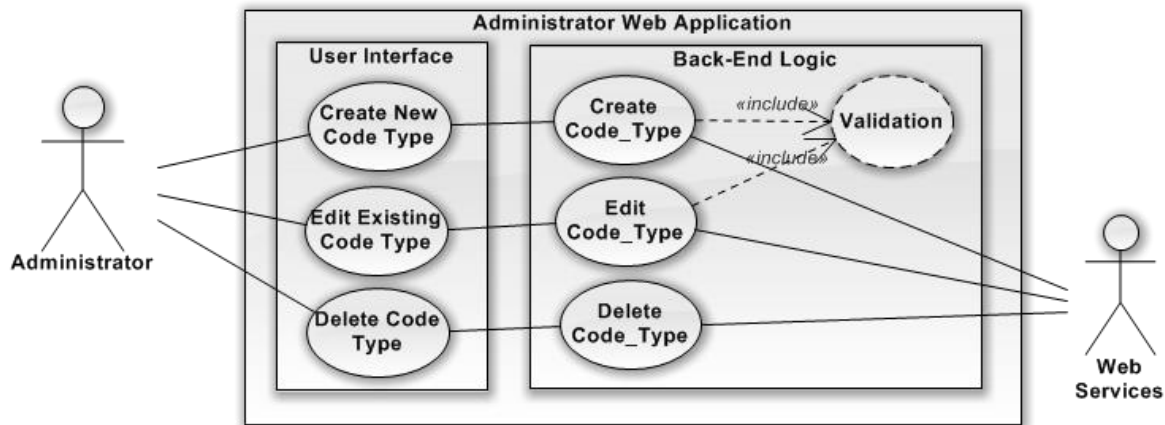
Use Case Name	UC-32: Add / Edit / Delete Form Element Option
Description	The Web Services method that gets called to create, edit or delete Form Element Option Object.
Work Products	Web Services;
Users/Actors	Web Services; Database;
Assumptions	Received Parameters is Validated;
Preconditions	The Method gets called; Receives Certain Parameters Criteria
Steps	<p>01: The Web Service Method Add / Edit / Delete Form Element Option gets called</p> <p>02: Validates received parameters</p> <p>03: Calls DAO to perform the needed logic in the database</p> <p>03-01: DAO calls the Form Element Option table and queries on the received parameters. Returns success message</p> <p>04: Return Success Message</p>
Variations	AP-03-01: If can't connect to database, it will timeout and return error.
Postconditions	The correct database action for the Form Element Option table has been performed
Exit Criteria	Web Services wait for next call





## 2.3 Administrator Web-Application

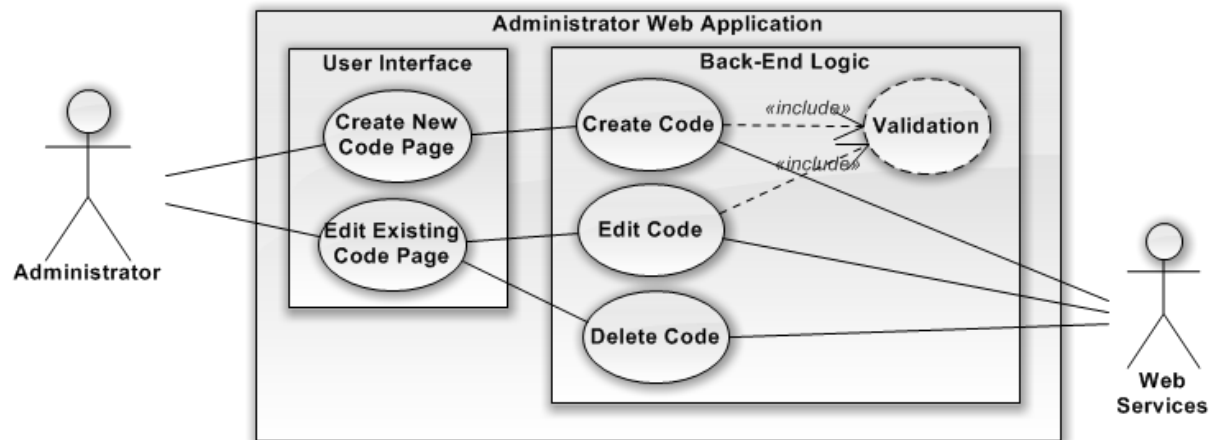
### UC-11: Add / Edit / Delete Code Types



Use Case Name	UC-11: Add / Edit/ Delete Code Types
Description	Administrator can manage all CRUD operations for the Code_Type table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Code Types 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Code Types
Exit Criteria	None



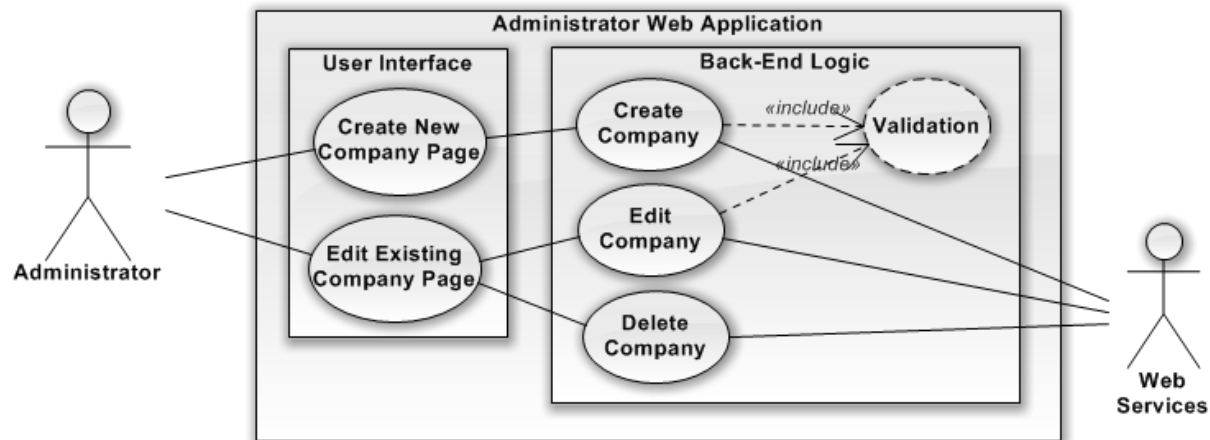
## UC-12: Add / Edit / Delete Code



Use Case Name	UC-12: Add / Edit/ Delete Code
Description	The Administrator can manage all CRUD operations of the Codes Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Code 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Codes
Exit Criteria	None



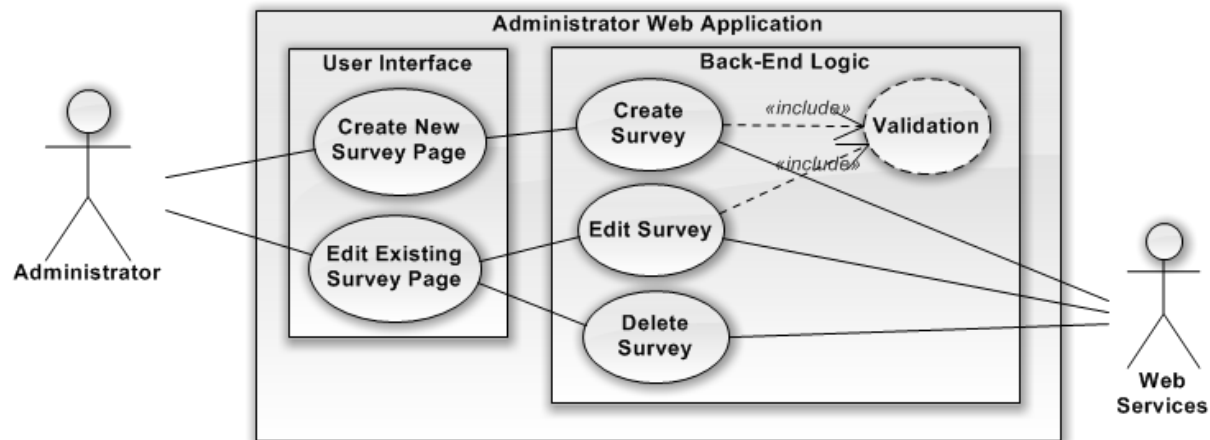
## UC-13: Add / Edit / Delete Company



Use Case Name	UC-13: Add / Edit/ Delete Company
Description	The Administrator can manage all CRUD operations of the Company Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Company 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Company
Exit Criteria	None



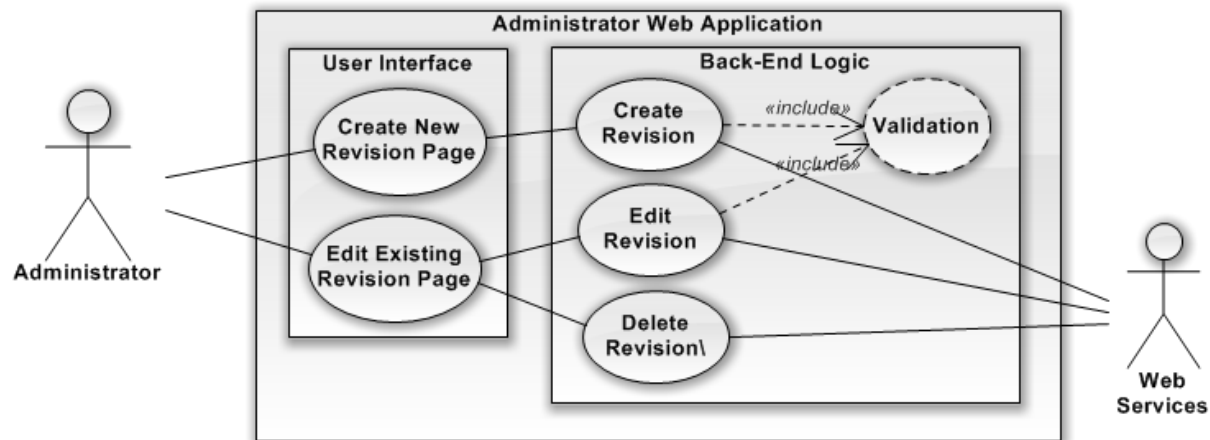
## UC-14: Add / Edit / Delete Survey



Use Case Name	UC-14: Add / Edit/ Delete Survey
Description	The Administrator can manage all CRUD operations of the Survey Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Survey 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Survey
Exit Criteria	None



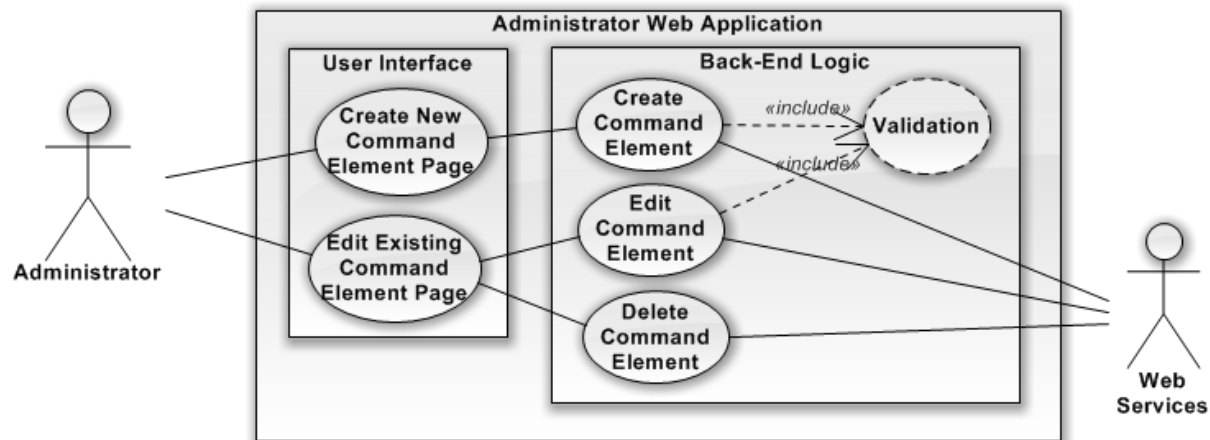
## UC-15: Add / Edit / Delete Revision



Use Case Name	UC-15: Add / Edit/ Delete Revision
Description	The Administrator can manage all CRUD operations of the Revision Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Revision 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Revision
Exit Criteria	None



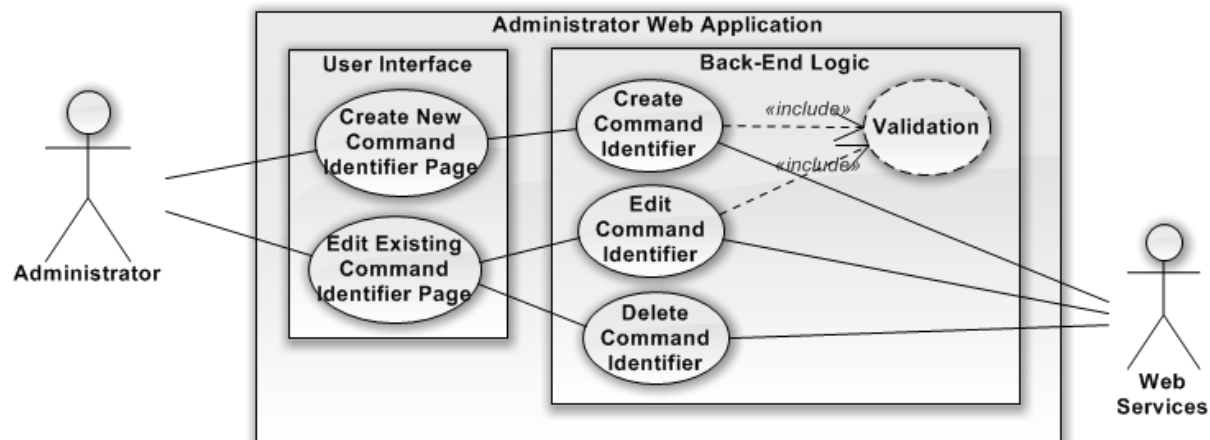
## UC-16: Add / Edit / Delete Command Element



Use Case Name	UC-16: Add / Edit/ Delete Command Element
Description	The Administrator can manage all CRUD operations of the Command Element Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Command Element 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Command Element
Exit Criteria	None



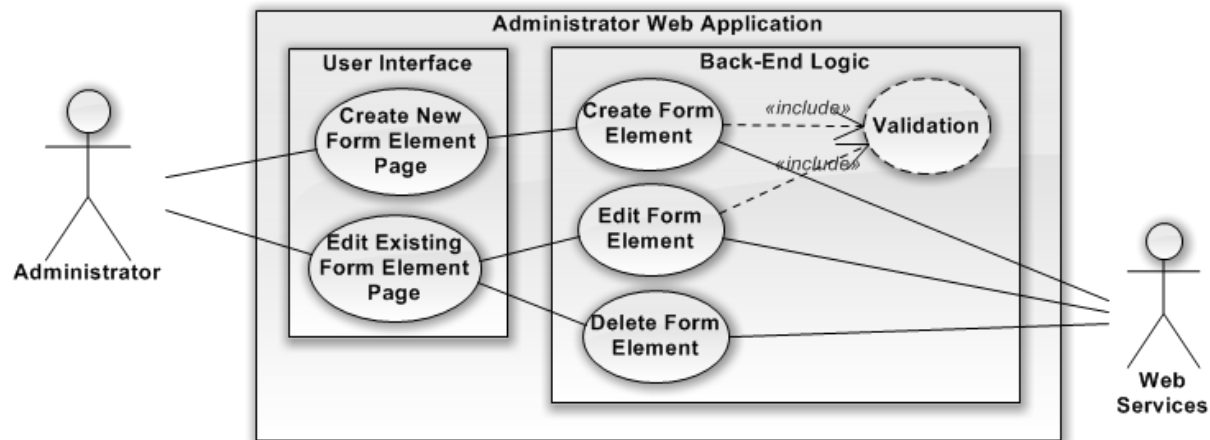
## UC-17: Add / Edit / Delete Command Identifier



Use Case Name	UC-17: Add / Edit/ Delete Command Identifier
Description	The Administrator can manage all CRUD operations of the Command Identifier Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Command Identifier 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Command Identifier
Exit Criteria	None



## UC-18: Add / Edit / Delete Form Element

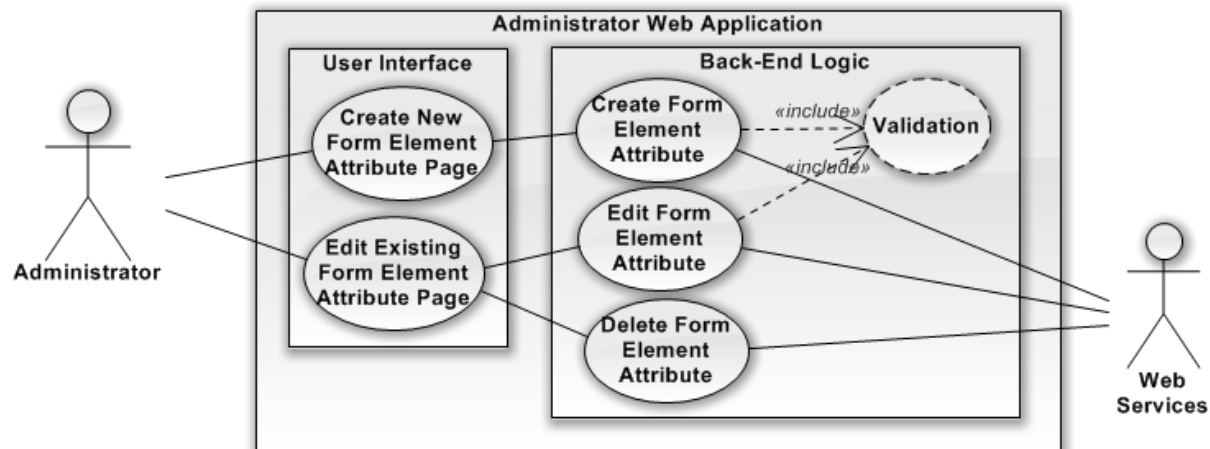


Use Case Name UC-18: Add / Edit/ Delete Form Element	
Description	The Administrator can manage all CRUD operations of the Form Element Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Form Element 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Form Element
Exit Criteria	None





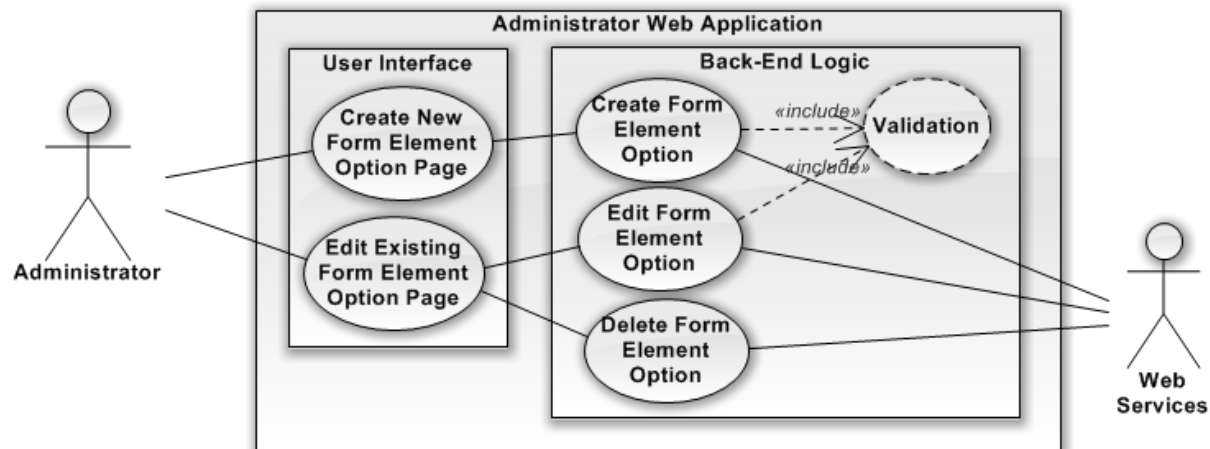
## UC-19: Add / Edit / Delete Form Element Attribute



Use Case Name	UC-19: Add / Edit/ Delete Form Element Attribute
Description	The Administrator can manage all CRUD operations of the Form Element Attribute Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Form Element Attribute 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Form Element Attribute
Exit Criteria	None



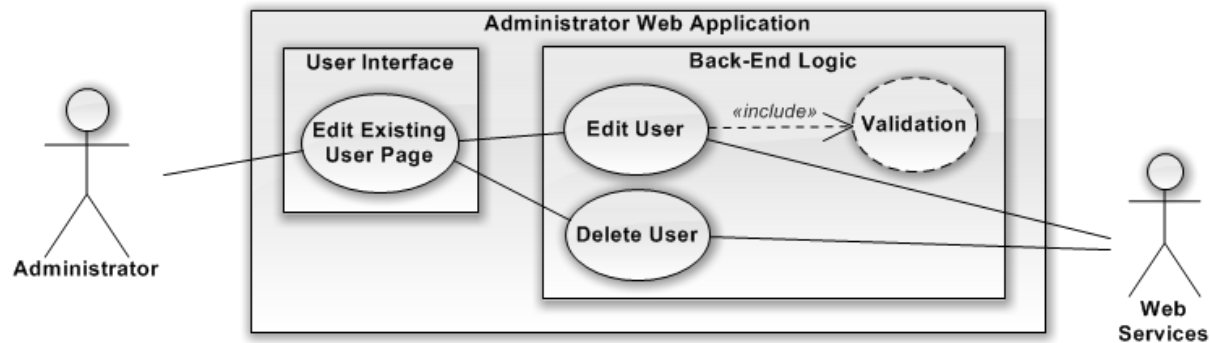
## UC-20: Add / Edit / Delete Form Element Option



Use Case Name	UC-20: Add / Edit/ Delete Form Element Option
Description	The Administrator can manage all CRUD operations of the Form Element Option Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the Form Element Option 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on Form Element Option
Exit Criteria	None



## UC-21: Add / Edit / Delete User



Use Case Name	UC-21: Add / Edit/ Delete User
Description	The Administrator can manage all CRUD operations of the User Table
Work Products	Admin Web App;
Users/Actors	Administrator; Web Services;
Assumptions	Administrator is logged in;
Preconditions	None;
Steps	01: Use Inputs Needed values for the User 02: User Clicks Submit 03: User Sees Waiting Message 03-01: Validation of all inputted values 03-02: Request made to Web Services 03-03: Response is received and information is parsed. 04: Page is refreshed to show the updated content
Variations	AP-03-01: If any fields are invalid, it will output error message to user. AP-03-02: If can't connect to database, it will timeout and return error.
Postconditions	CRUD Operations is performed on User
Exit Criteria	None

