Use Case Model

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Use Case Model

Overview

Figure 1: Overview

Type:	*Public,* **Boundary**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Use Case Model
Details:	Created on: 20/02/2003, Modified on: 24/02/2003, Author: Chuck Wilson

Actors

Human Actors

Human Actors
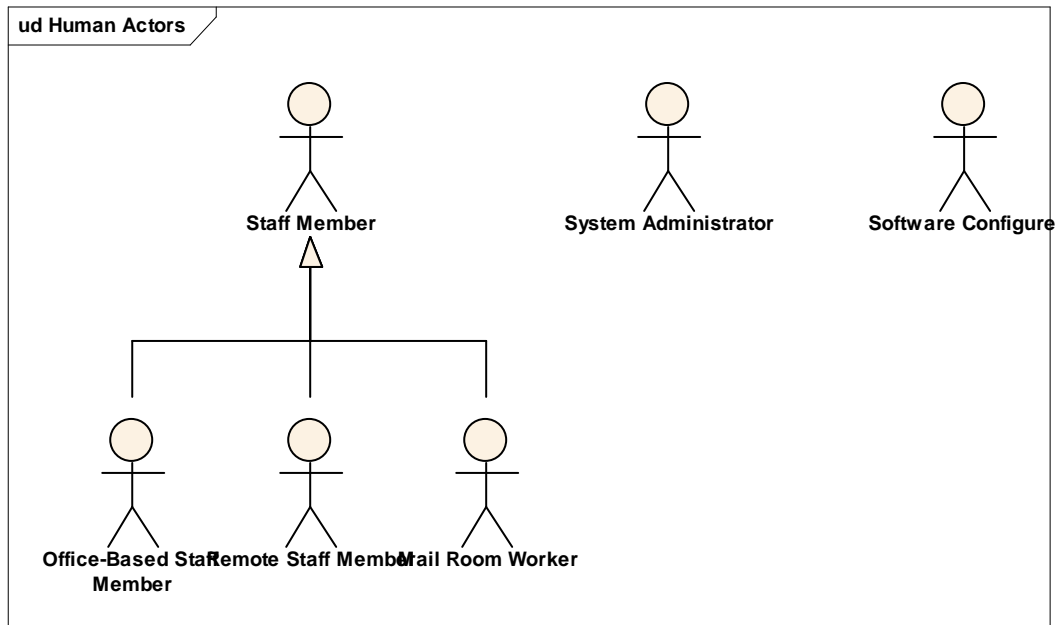
Figure 2: Human Actors

Mail Room Worker

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Human Actors
Details:	Created on: 6/05/2003, Modified on: 13/06/2003, Author: Chuck Wilson

The Mail Room Worker is a Staff Member working in the mailroom. They have particular important to the system because they need to update the system when mail arrives or leaves the mailroom. It is this worker that effectively bridges the gap between the electronic and manual parts of the system.

Office-Based Staff Member

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Human Actors
Details:	Created on: 19/02/2003, Modified on: 13/06/2003, Author: Chuck Wilson

This is an Actor who is based in the office and will access the system through the LAN.

Remote Staff Member

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Human Actors
Details:	Created on: 19/02/2003, Modified on: 13/06/2003, Author: Chuck Wilson

The CEO has issued a security warning in conjunction with the Security Officer. Unless there is direct permission granted by the security department no staff member should be able access the system externally, except those given this express permission.

Software Configurer

Type: *Public,* **Actor**
Status: Proposed, Version 1.0, Phase 1.0
Package: Human Actors
Details: Created on: 19/02/2003, Modified on: 2/06/2003, Author: Chuck Wilson

Staff Member

Type: *Public,* **Actor**
Status: Proposed, Version 1.0, Phase 1.0
Package: Human Actors
Details: Created on: 19/02/2003, Modified on: 27/08/2003, Author: Chuck Wilson

The Staff Member actor is a role played by almost every individual in the organization. It represents anyone who has been given an account with the messenger system. It is important to note that contractors or visiting personnel will typically given an account and will therefore be considered Staff Members for the duration of their contract or visit.

System Administrator

Type: *Public,* **Actor**
Status: Proposed, Version 1.0, Phase 1.0
Package: Human Actors
Details: Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

System Actors

System Actors

Figure 3: System Actors

External Email Gateway

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	System Actors
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Fax Gateway

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	System Actors
Details:	Created on: 6/05/2003, Modified on: 4/06/2003, Author: Chuck Wilson

SMS Gateway

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	System Actors
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Telephone Gateway

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	System Actors
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Fax Gateway

Voice Gateway

Type:	*Public,* **Actor**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	System Actors
Details:	Created on: 6/05/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Use Cases

Contact and Address Book

Contact and Address Book
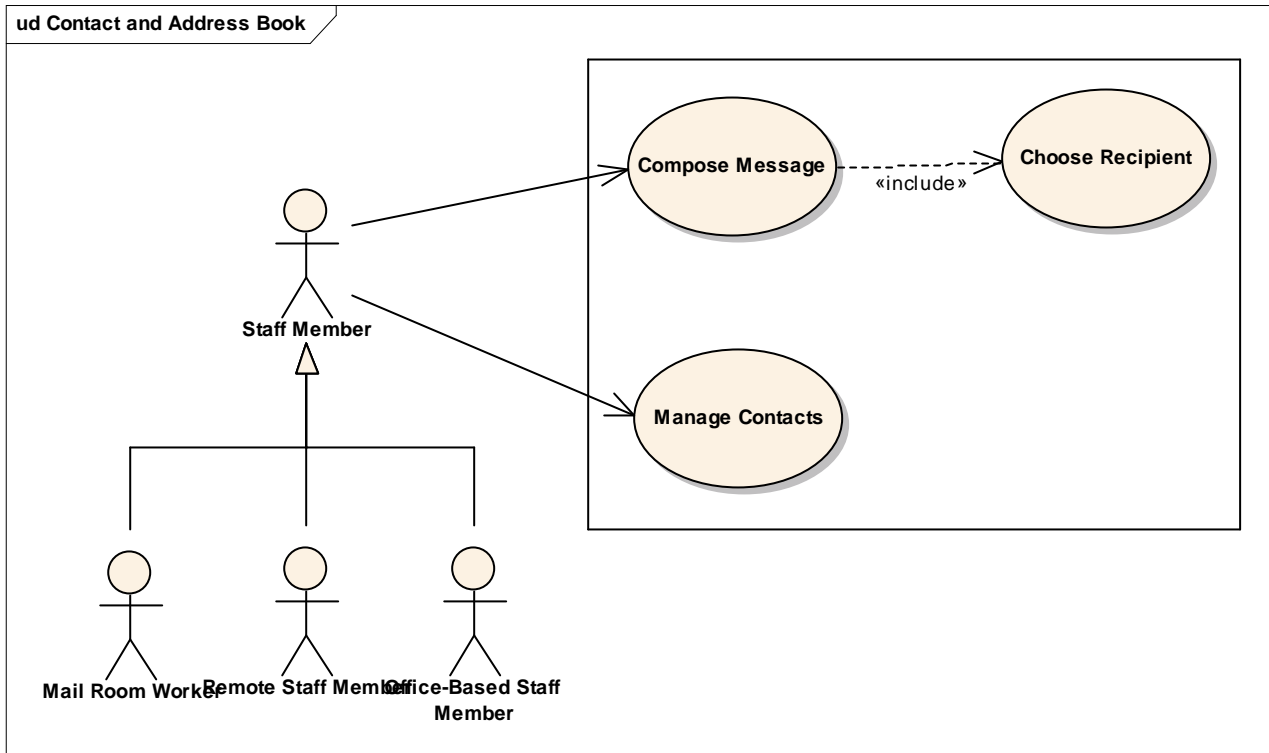
Figure 4: Contact and Address Book

Type:	*Public,* **Boundary**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Contact and Address Book
Details:	Created on: 13/06/2003, Modified on: 13/06/2003, Author: Chuck Wilson

Choose Recipient

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Contact and Address Book
Details:	Created on: 19/02/2003, Modified on: 13/06/2003, Author: Chuck Wilson

This use case details the process by which contacts are selected from the address book for the purposes of having a message sent to them.

Manage Contacts

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Contact and Address Book
Details:	Created on: 20/02/2003, Modified on: 13/06/2003, Author: Chuck Wilson

The Manage Contacts use case describes all aspect of the way that the actors manage the people and parties they have listed in their address book. Actors will be able to create, update, and delete contacts in any address book they have permission to access. They will also be able create, update and delete groups and add and remove allowing them to effectively reclassify contacts and groups within other groups. The notion is that actors should have complete flexibility to manage their contact as they wish.

Messaging

Compose Message
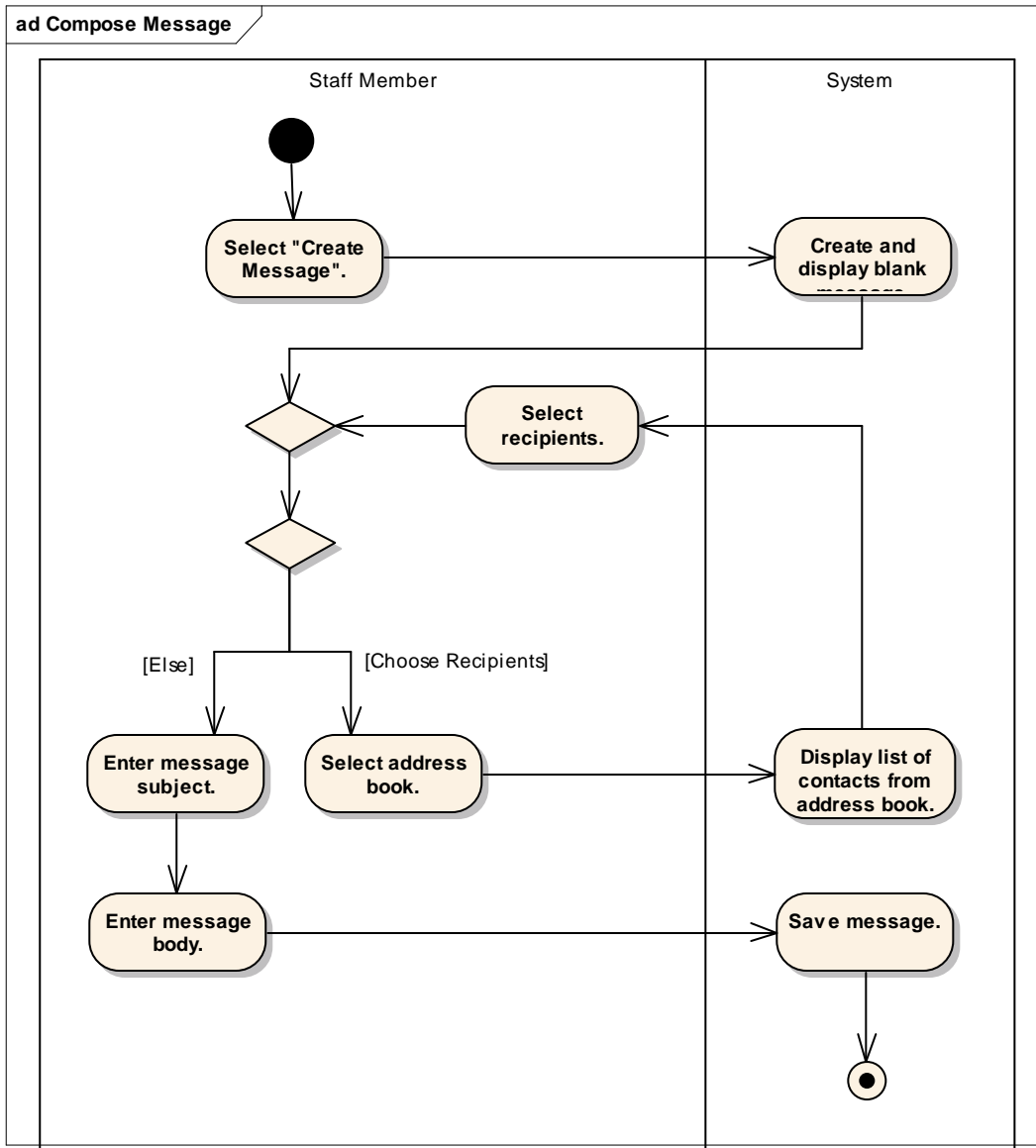
Figure 5: Compose Message

Compose Message
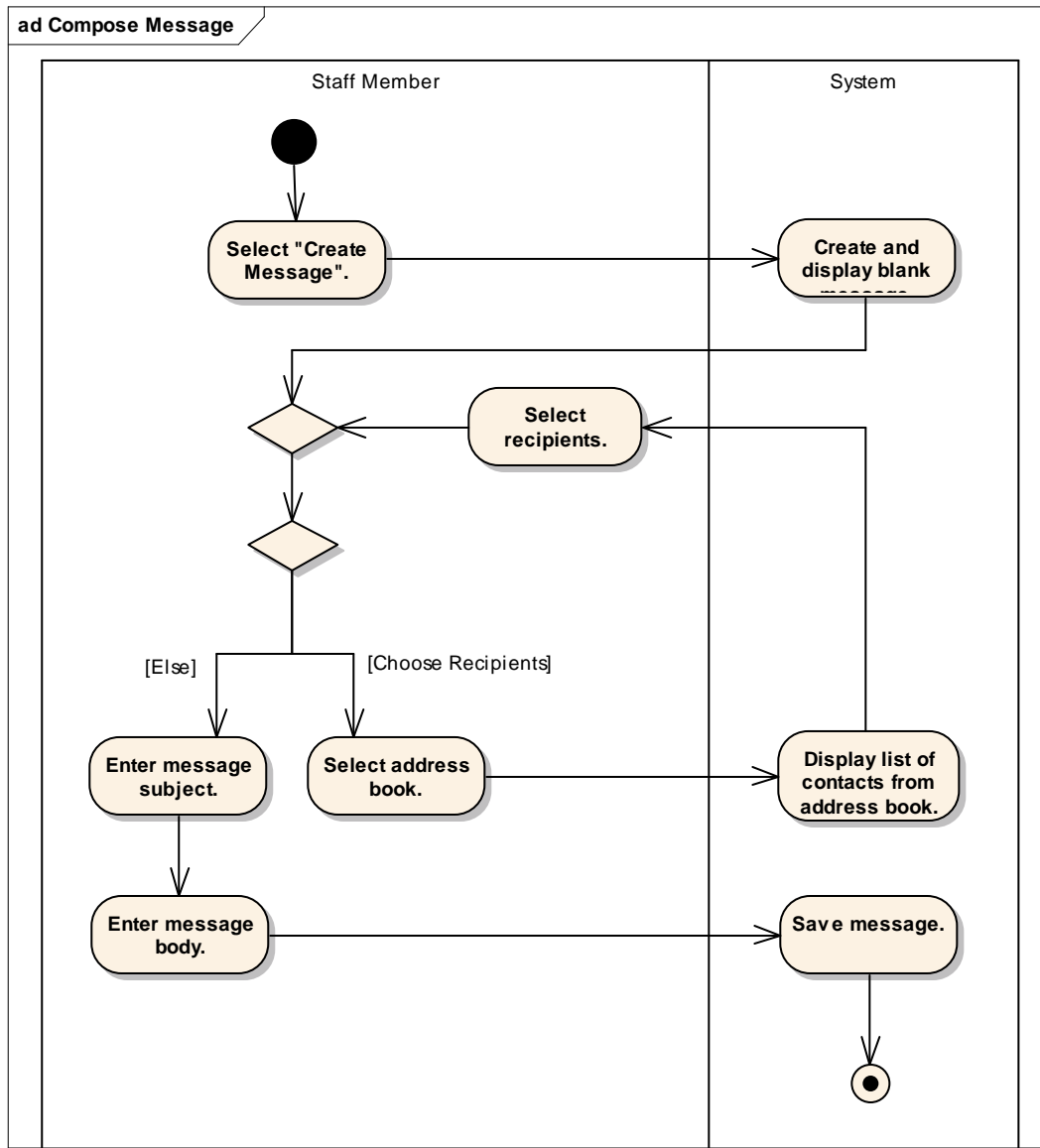
Figure 6: Compose Message

Note

Type: *Public,* **Note**
Status: Proposed, Version 1.0, Phase 1.0
Package: Messaging
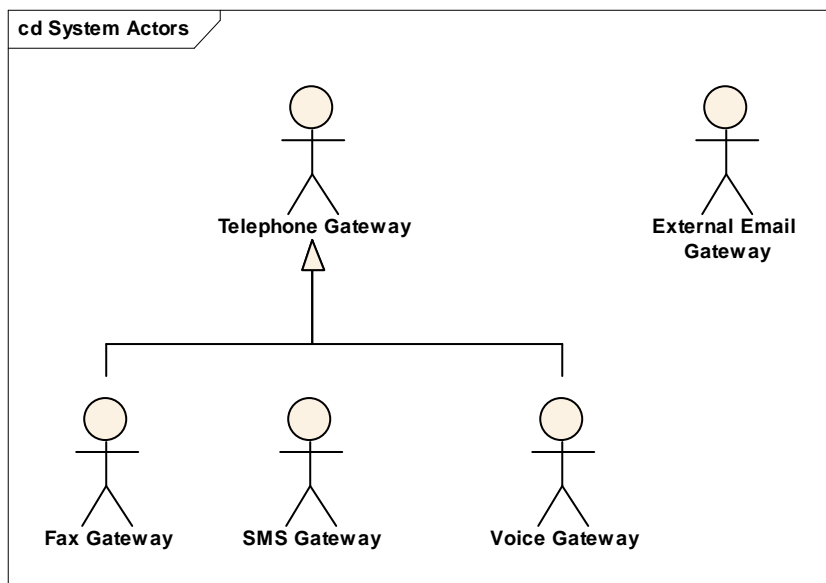*Details:*   Created on: 11/06/2003, Modified on: 11/06/2003, Author: Chuck Wilson

Remote staff members are considered separately because of the security implications.

Note

Type: *Public,* **Note**
Status: Proposed, Version 1.0, Phase 1.0
Package: Messaging
Details: Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Generally the message would just have been created and as such the message would already be selected.

Check Spelling and Grammar

Type: *Public,* **UseCase**
Status: Proposed, Version 1.0, Phase 1.0
Package: Messaging
Details: Created on: 5/05/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Compose Message

Type: *Public,* **UseCase**
Status: Proposed, Version 1.0, Phase 1.0
Package: Messaging
Details: Created on: 19/02/2003, Modified on: 13/06/2003, Author: Chuck Wilson

The Compose Message use case defines all aspects of the creation of messages such as the selection of message recipients and the writing of message contents and the inclusion of attachments to the message. Note that the delivery mechanism used to deliver the message is not determined at this stage but is determined by the preferences of the recipient when the message is sent. Once a message is composed it can be saved or sent (these are defined in other use cases)
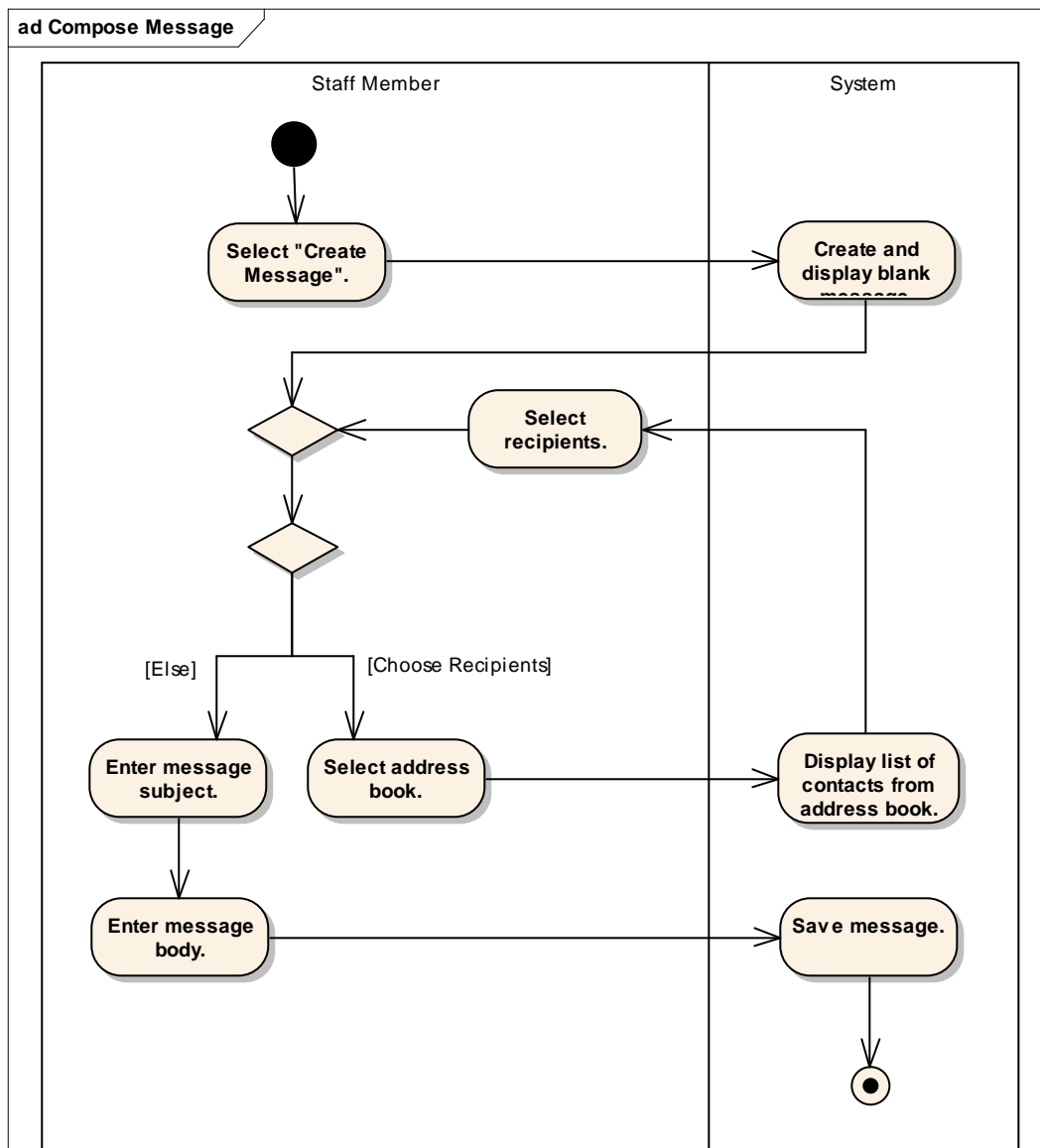
Figure 7: Compose Message

Create and display blank message.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Compose Message
Details:	Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Display list of contacts from address book.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Compose Message
Details:	Created on: 20/05/2003, Modified on: 12/06/2003, Author:

Enter message body.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Compose Message
Details:	Created on: 19/05/2003, Modified on: 12/06/2003, Author:

Enter message subject.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Compose Message
Details:	Created on: 19/05/2003, Modified on: 12/06/2003, Author:

Save message.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Compose Message
Details:	Created on: 19/05/2003, Modified on: 12/06/2003, Author:

Select "Create Message".

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Compose Message
Details:	Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Select address book.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Compose Message
Details:	Created on: 19/05/2003, Modified on: 12/06/2003, Author:

Select recipients.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0

Package: Compose Message
Details: Created on: 20/05/2003, Modified on: 12/06/2003, Author:

Type: *Public,* **Decision**
Status: Proposed, Version 1.0, Phase 1.0
Package: Compose Message
Details: Created on: 20/05/2003, Modified on: 12/06/2003, Author:

Type: *Public,* **Decision**
Status: Proposed, Version 1.0, Phase 1.0
Package: Compose Message
Details: Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Type: *Public,* **Decision**
Status: Proposed, Version 1.0, Phase 1.0
Package: Compose Message
Details: Created on: 12/06/2003, Modified on: 12/06/2003, Author: Chuck Wilson

Type: *Public,* **StateNode**
Status: Proposed, Version 1.0, Phase 1.0
Package: Compose Message
Details: Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Type: *Public,* **StateNode**
Status: Proposed, Version 1.0, Phase 1.0
Package: Compose Message
Details: Created on: 19/05/2003, Modified on: 12/06/2003, Author:

Decrypt Message

Type: *Public,* **UseCase**
Status: Proposed, Version 1.0, Phase 1.0
Package: Messaging
Details: Created on: 20/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Encrypt Message

Type: *Public,* **UseCase**
Status: Proposed, Version 1.0, Phase 1.0
Package: Messaging
Details: Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Read Message

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Messaging
Details:	Created on: 20/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Send External Email

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Messaging
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Send Fax

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Messaging
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Send Internal Email

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Messaging
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Send Letter

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Messaging
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

Send Message

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Messaging
Details:	Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

This use case deals with sending of messages after they have been created. It describes the process by which message is checked for completeness an sent via the appropriate delivery mechanism or mechanisms.

Figure 8: Compose Message

Check mandatory data.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Display list of contacts from address book.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Enter missing data.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message

Details: Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Get delivery methods.

Type: *Public,* **Activity**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
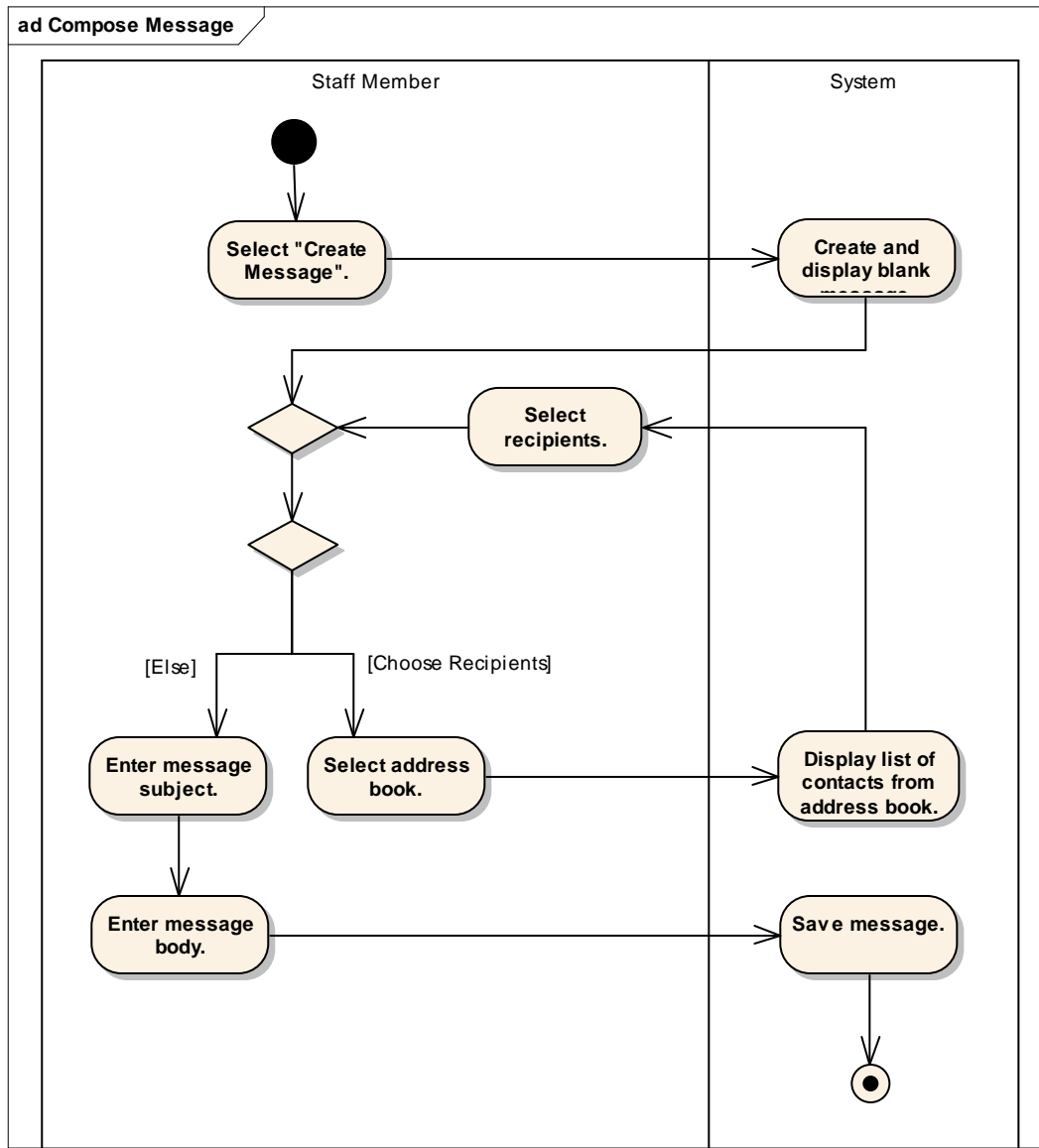*Details:*   Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Inform user of missing mandatory data.

Type: *Public,* **Activity**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Read delivery failure message.

Type: *Public,* **Activity**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Receive delivery failure message.

Type: *Public,* **Activity**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Select address book.

Type: *Public,* **Activity**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Select message from list.

Type: *Public,* **Activity**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 19/05/2003, Modified on: 12/06/2003, Author:

Select recipients.

Type: *Public,* **Activity**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 20/05/2003, Modified on: 12/06/2003, Author:

Send delivery failure message to Staff Member.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Send message via appropriate delivery methods.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Send message.

Type:	*Public,* **Activity**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Type:	*Public,* **Decision**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 19/05/2003, Modified on: 20/05/2003, Author:

Type:	*Public,* **Decision**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Type:	*Public,* **Decision**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 12/06/2003, Modified on: 12/06/2003, Author: Chuck Wilson

Type:	*Public,* **Object**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	Send Message
Details:	Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Type:	*Public,* **StateNode**
Status:	Proposed, Version 1.0, Phase 1.0

Package: Send Message
Details: Created on: 19/05/2003, Modified on: 12/06/2003, Author:

Delivery Failure

Type: *Public,* **StateNode**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Delivery Successful

Type: *Public,* **StateNode**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 19/05/2003, Modified on: 20/05/2003, Author:

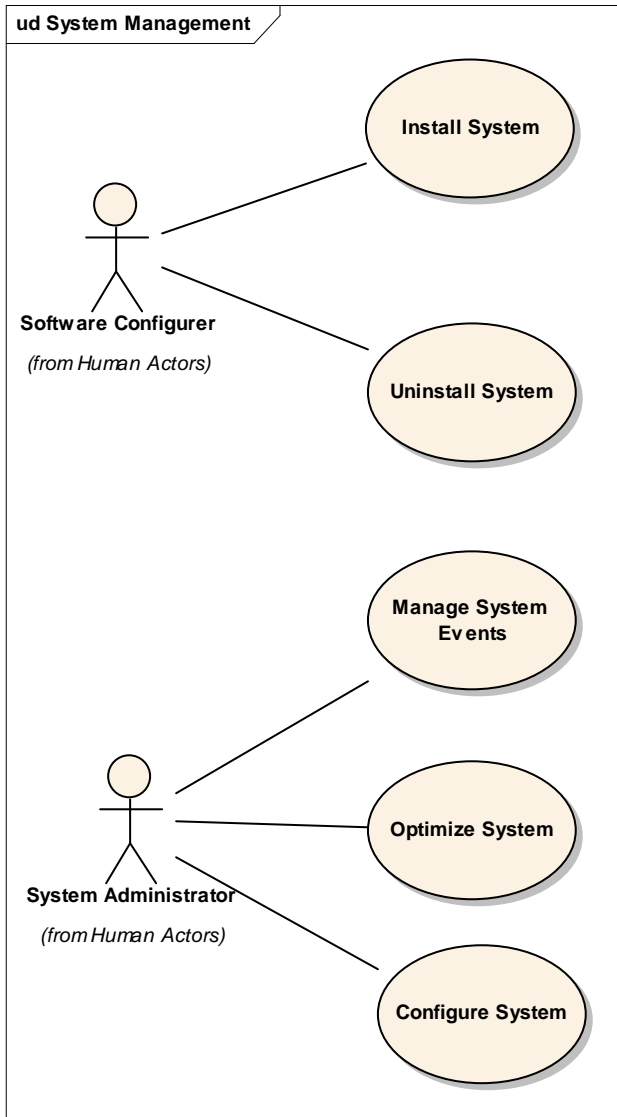## System Down

Type: *Public,* **StateNode**
Status: Proposed, Version 1.0, Phase 1.0
Package: Send Message
Details: Created on: 20/05/2003, Modified on: 20/05/2003, Author:

Send SMS

Type: *Public,* **UseCase**
Status: Proposed, Version 1.0, Phase 1.0
Package: Messaging
Details: Created on: 19/02/2003, Modified on: 4/06/2003, Author: Chuck Wilson

System Management

System Management

Figure 9: System Management

Configure System

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	System Management
Details:	Created on: 5/05/2003, Modified on: 13/05/2003, Author: Chuck Wilson

The system needs to be running optimally and there will be a number of things that may slow the system down over time these may need to be configured over time to ensure efficiency.

Install System

Type:	*Public,* **UseCase**
Status:	Proposed, Version 1.0, Phase 1.0
Package:	System Management
Details:	Created on: 5/05/2003, Modified on: 13/05/2003, Author: Chuck Wilson

Manage System Events

Type:	*Public,* **UseCase**

Status: Proposed, Version 1.0, Phase 1.0
Package: System Management
Details: Created on: 5/05/2003, Modified on: 13/05/2003, Author: Chuck Wilson

In the event of system failure there will be a need to analyze the fault and determine any action that needs to be carried out. This will involve the ability to view where, when and how the error occurred, what the impact of the fault is and the implementation of any corrective action such as restarting the system.

Optimize System

Type: *Public,* **UseCase**
Status: Proposed, Version 1.0, Phase 1.0
Package: System Management
Details: Created on: 5/05/2003, Modified on: 13/05/2003, Author: Chuck Wilson

Uninstall System

Type: *Public,* **UseCase**
Status: Proposed, Version 1.0, Phase 1.0
Package: System Management
Details: Created on: 5/05/2003, Modified on: 13/05/2003, Author: Chuck Wilson