*Login To System*

***Use Case: "Login to System"***

Version <1.0>

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 01/15/2013 | 1.0 | Initial Revision | Ryan Williams |
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Use Case: "Login to System"

# 

# Overview

## Brief Description

*This is a 1-2 sentence description for the use case. What does the use case do? Why does it do it?*

This is the common use case of logging into the register system. This is done upon every change of user on the system or after 5 minutes of inactivity from the user.

## Requirements Trace

*A numeric list of what requirements map to this use case. E.g. 10.1, 10.2, 11, 12, 13, 14*

## Involved Actors

*Actor 1, Actor 2, etc.*

Register system, User, Admin system, Database

## Preconditions

*A precondition is the necessary state of the system before entering the use case.*

* Machine must be on
* Register Program must be running
* User must be there to enter user id and password

## Post conditions

*A post condition is the necessary state of the system after the use case executes.*

* System is ready for an order to be started

## Invariants

*Invariants are those parts of the system that will stay consistent throughout the use case but are some way involved in the use case.*

* Machine running the register system must stay on and continually running the program

# Flow of Events

## Basic Flow

*The Basic Flow is where the generalized use case steps are written.*

This use case starts when …

1. *User enters user id and password*
2. *Register sends login message to Admin system*
3. *Admin receives message*
4. *Admin Requests employee information from Database*
5. *Database sends response*
6. *Admin system verifies login*
7. *Admin system sends correct login message to Register*
8. *Register receives verification message*
9. *Register allows User into the system*
10. *Register is ready for order to start*

## Alternate Course – None

# Extension Points

None.

# Scenarios

*Each scenario is an instance of a use case. Scenarios map directly to test cases for a specific use case.*

## Happy Day

*Happy Day is an instance of a use case when everything goes correctly.*

Assumptions:

*Assumptions are those items that make up the “instance” of a use case.*

There are no problems with the system.

Steps:

*These are the steps as carried out with the assumptions set above applied.*

*1. User enters user id and password*

*2. Register sends login message to Admin system*

*3. Admin receives message*

*4. Admin Requests employee information from Database*

*5. Database sends response*

*6. Admin system verifies login*

*7. Admin system sends correct login message to Register*

*8. Register receives verification message*

*9. Register allows User into the system*

*10. Register is ready for order to start*

## Rainy Day – *“User is forgetful”*

This is an instance of the use case when there is an error condition that will be handled by the system.

Assumptions:

*The conditions that make the system failure occur.*

User is tired

User can’t remember their password

Steps:

*These are the steps as carried out with the assumptions set above applied.*

*1. User enters user id and password*

*2. Register sends login message to Admin system*

*3. Admin receives message*

*4. Admin Requests employee information from Database*

*5. Database sends response*

*6. Admin system verifies login*

*7. If login is correct jump to step 13*

*8. Admin system sends incorrect login message to Register*

*9. Register receives verification message*

*10. Register does not allows User into the system*

*11. Register prompts for user id and password*

*12. Repeat from step 1 until password is accepted*

*13. Admin system sends correct login message*

*14. Register receives message.*

*15. Register allows User into the system*

*16. Register is ready for a order*