Digital Pink Card
Use Case Specification

Submitted to:

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Unique Reference:

The documents are stored in the https://github.com/cadaroya/forgee/tree/master/02-Requirements%20Engineering

Unique File Reference: https://github.com/cadaroya/forgee/blob/master/02-Requirements%20Engineering/3.1%20-%20Determine%20Usage%20Cost.pdf

Document Purpose:

The purpose of this document is to expound on the use case 3.1 Determine amount due and identify all the possible scenarios that might happen when the use case is executed.

Target Audience:

This document is suited for the developers that would be working on this project, so that they could have a clear sight on what could occur and be able to plan ahead.

Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Modification
10/09/17	Carlos Adrian A. Daroya	1.0	Initial document
10/11/17	Pauline Ocampo	1.1	Fixed unique file reference

Use-Case Name: 3.1. Determine Usage Cost/ Determine amount due

Description: This is automatically generated by the system upon time out. Usage time is calculated by getting the difference between time in and time out. If the user still has free hours, usage time is subtracted from user's free hours. Otherwise, usage fee is calculated by multiplying the usage time with the rate.
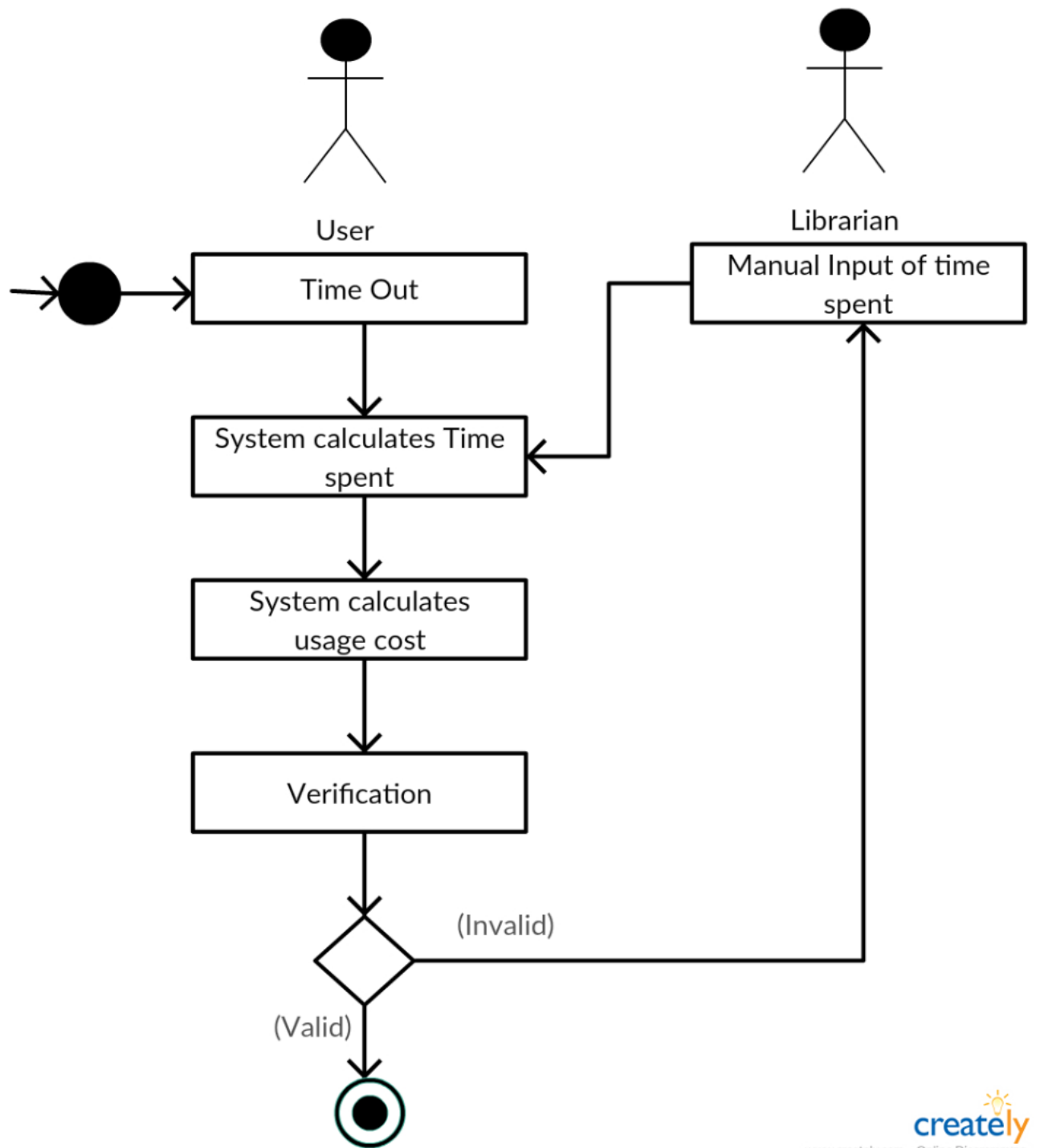
Preconditions: For this functionality to trigger, the following must have already occurred:
- Time Out

Flow of Events:

Scenario Name	Description
Scenario 1 (Basic Flow) Usage cost is calculated and verified as valid	1. The user times out to end session 2. Calculate time spent (Note that time spent is calculated with the remaining free hours) 3. Calculate usage cost 4. Physically verified as valid cost
Scenario 2 (Invalid Cost) Usage cost calculated is invalid so it is manually inputted	1. The user times out to end session 2. Calculate time spent (Note that time spent is calculated with the remaining free hours) 3. Calculate usage cost 4. Physically verified as invalid cost 5. Manually edit time spent to calculate usage cost

Activity Diagram of the Flow of Events:

User

Librarian

Time Out

Manual Input of time
spent

System calculates Time
spent

System calculates
usage cost

Verification

(Invalid)

(Valid)

creately

Postcondition: NONE

Relationships: This use case only executes after time out executes.

Special Requirements: NONE