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| --- | --- |
| **Use Case ID** | UC 11 |
| **Use Case Name** | Create Account |
| **Author Name** | Hyungtaek Kim |
| **Primary Actor** | New User |
| **Actor’s Goal** | Actor creates a new account |
| **Business Value** | Critical |

## Description

A prospective user creates a new account. External e-mail account will be needed to verify user identification.

## Main Success Scenario <Mandatory>

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| --- | --- | --- |
| **Step** | **Actor Action** | **System Response** |
| **1** | User enters new user ID | System checks if the ID is available (not taken) |
| **2** | User enters new password | System checks if password requirement meet |
| **3** | User re-enter the password | System checks if the passwords match |
| **4** | User enters e-mail address | System sends verification code to the e-mail |
| **5** | User enters verification code | System verify the e-mail |
| **6** | User confirm the creation | System stores user data to server |

## Alternative [Success] Scenario 1: Password Requirement

**Trigger Condition**: The new password does not meet the condition

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| **Step** | **Actor Action** | **System Response** |
| **1** | While creating account, user enters password without any special character. | The system prompt user that password should contain at least 1 special character. |
| **2** | User re-enters new password that contains special letters | The system prompt to user that new password meets the condition. |
| **3** | User confirm the creation | System stores user data to server |

## Alternative [Failure] Scenario 2: Invalid e-mail address

**Trigger Condition**: User enters wrong e-mail verification code

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| **Step** | **Actor Action** | **System Response** |
| **1** | While creating account, user enters wrong verification code | System prompt user to enter valid verification code, and provide an option: “re-send verification e-mail” |
| **2** | User enters alternative e-mail address | System sends verification e-mail to new e-mail address. |
| **3** | User enters wrong verification code | Loop step 1 & 2. |

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| **Secondary Actors** | External e-mail service providers (google, yahoo, etc.) |
| **Trigger Event** | User clicks “create a new account” button |
| **Precondition** | User has existing e-mail address for verification |
| **Frequency of Execution** | Frequency follows the number of new customers. (30~50 daily) |
| **Success Criteria (optional)** | System verifies e-mail address that user provided when verification code matches |
| **Development Cost** | Average |

## Issues / Risks

It may risk user to enter random e-mail address, or user may spam sending verification e-mail. Thus, the system may send verification e-mail within certain term.

## UML Activity Diagrams <Mandatory>

