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Assignment 1: Use Cases

Use Cases:

1. User creates a ToDo and sends it to a friend/recipient.
2. User removes ToDo.
3. User receives and acts upon person-to-person Place-it ToDo.
4. User is about to leave the location of ToDo.
5. User creates a GeoTagged Picture and sends it to a friend/recipient.
6. User receives and acts upon a person-to-person placed GeoTagged Pic.
7. User sets a Location Sensitive Service.
8. User removes a Location Sensitive Service.
9. User arrives at a specified location in with a Location Sensitive Service has been created.

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| Goal | User creates a ToDo and sends it to a friend/recipient. |
| Initial State | Home Screen on Phone. |
| Final State | User sends completed ToDo to a friend/recipient. |
| Steps | <ol style="list-style-type: none"> 1. User selects “Create New ToDo”. 2. User sets location of ToDo. 3. User sets message of ToDo. 4. User sets Time Constraints (if any). 5. (Assuming user selects “Send”) <ol style="list-style-type: none"> a. User hits send. b. System creates ToDo object. c. System sends ToDo to recipient. 6. (Assuming user hits cancel) <ol style="list-style-type: none"> a. User hits cancel. b. System returns to Home Screen. |
| Variation | <ol style="list-style-type: none"> 1. User sets recipient as “self”. |
| Extension | <ol style="list-style-type: none"> 1. User wants to attach / send picture 2. User wants to attach / send audio recording |

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| Goal | User removes a ToDo. |
| Initial State | User is viewing ToDo list |
| Final State | User removes ToDo / returned to ToDo list with object removed |
| Steps | <ol style="list-style-type: none"> 1. User selects “ToDo” object from list. 2. Program prompts for confirmation for removal. 3. Prompts for notification of Removal of ToDo. 4. (Assuming User wants to notify sender of ToDo) <ol style="list-style-type: none"> a. User selects yes. b. Notification is sent to sender of ToDo. c. User is returned to List of ToDo’s. 5. (Assuming User does not want to notify sender of ToDo) <ol style="list-style-type: none"> a. User selects no. b. User is returned to List of ToDo’s. |

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| Goal | User receives and acts upon person-to-person Place-it ToDo. |
| Initial State | User arrives at a location with a Place-It ToDo. |
| Final State | User completes ToDo, and marks it as done, or declines it for this visit. |
| Steps | <ol style="list-style-type: none"> 1. User moves towards a specific location with a ToDo. 2. As user nears the location, system displays the header of ToDo (or list of ToDo headers). 3. User selects ToDo. 4. System displays the details. 5. (Assume user declines ToDo) <ol style="list-style-type: none"> a. User hits “decline ToDo” button. b. System notifies the creator of the ToDo (if someone other than user) that ToDo has been declined. c. System saves ToDo, but it removes it from users list, for this visit. 6. (If User accepts ToDo) <ol style="list-style-type: none"> a. User hits accept ToDo button. b. System displays the confirmation: “Are you sure you going to do the ToDo?” c. User confirms. d. System adds the ToDo to the “Active Tasks”. e. System removes the ToDo from the users list. |

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| Goal | User is about to leave the location of ToDo. |
| Initial State | User is leaving a location that they accepted a ToDo object for, which is on the Active Task list. |
| Final State | User resolves whether or not they completed the ToDo. |
| Steps | <ol style="list-style-type: none"> 1. User attempts to leave an area which they have accepted a ToDo for. 2. System reminds the user about the ToDo to make sure they've completed the item. 3. (Assuming user hits "yes") <ol style="list-style-type: none"> a. ToDo item is removed from the active list. 4. (Assuming user hits "no") <ol style="list-style-type: none"> a. System prompts user if they would like to continue doing the task, put the task off until later, or remove the task altogether. b. (Assuming that user chooses to continue task) <ol style="list-style-type: none"> i. System keeps the item on the Active list (put a delay on timer?) c. (Assuming that user chooses to put the task off) <ol style="list-style-type: none"> i. System puts the ToDo task back on the ToDo list. d. (Assuming that user chooses to remove task altogether) <ol style="list-style-type: none"> i. System deletes the ToDo task from the "Active list". |

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| Goal | User creates a GeoTagged Picture and sends it to a friend/recipient. |
| Initial State | Home Screen on Phone. |
| Final State | User sends completed ToDo to a friend/recipient. |
| Steps | <ol style="list-style-type: none">1. User selects "Create New GeoTagged Picture".2. User sets location of Pic.3. User sets message of Pic.4. User sets Time Constraints (if any).5. (Assuming user selects "Send")<ol style="list-style-type: none">a. User hits send.b. System creates GeoTagged Picture object.c. System sends GeoTagged Picture to recipient.6. (Assuming user hits cancel)<ol style="list-style-type: none">a. User hits cancel.b. System returns to Home Screen. |

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| Goal | User receives and acts upon a person-to-person placed GeoTagged Pic |
| Initial State | User arrives at a location with a GeoTagged picture. |
| Final State | User is shown the GeoTagged picture and message. |
| Steps | <ol style="list-style-type: none"> 1. User moves towards a specific loction with a GeoTagged Pic 2. As user nears the location, system displays the header of GeoTagged Pic 3. User selects Pic 4. System displays picture and message. 5. User is prompted with the option to save the picture for later or delete. 6. (Assuming user saves) <ol style="list-style-type: none"> a. Picture is moved back onto the GeoTagged picture list. <ol style="list-style-type: none"> i. Picture is delayed from being shown again? 7. (Assuming user deletes) <ol style="list-style-type: none"> a. Picture is removed from the list. b. System asks for confirmation c. User confirms d. System deletes GeoTagged picture object from list. |

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| Goal | User sets a Location Sensitive Service |
| Initial State | Home Menu |
| Final State | Home Menu |
| Steps | <ol style="list-style-type: none"> 1. User selects, “Add Location Sensitive Service” 2. User sets a Location for the service 3. User sets a Time Sensitive Constraint for the service 4. User sets actions for this Service <ol style="list-style-type: none"> a. User sets Silenced Ringer. <ol style="list-style-type: none"> i. User adds a phone number exception to Silenced Ringer. 5. User selects “Save”. 6. Program adds Selective Service Object. |
| Variations | <ol style="list-style-type: none"> 1. User leaves no Location, but a Time Sensitive constraint 2. User sets a Location, but no Time Sensitive constraint 3. User sets Silenced Alarms to the service’s actions. 4. User selects allow Calendar Alarms in the service’s actions. 5. User adds multiple phone number exceptions to the services actions. |

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| Goal | User removes a Location Sensitive Service |
| Initial State | Location Sensitive Service List |
| Final State | Location Sensitive Service List / service removed from list |
| Steps | <ol style="list-style-type: none"> 1. User selects Location Sensitive Service from list. 2. User selects “Remove Service” option. 3. Program prompts for confirmation of service removal 4. (Assuming User wants service removed) <ol style="list-style-type: none"> a. User selects “Confirm”. b. Specified Location Sensitive Service is removed from Location Sensitive Service List. c. Program returns User to Location Sensitive Service List. 5. (Assuming User did not want this to happen) <ol style="list-style-type: none"> a. User selects “Cancel” b. Program returns User to the specified Location Sensitive Service. |

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| Goal | User arrives at a specified location in with a Location Sensitive Service has been created. |
| Initial State | User can be using or not using their phone. |
| Final State | User is using or not using their phone |
| Steps | <ol style="list-style-type: none"> 1. User arrives at a specific location, where a location sensitive service has a specific location. 2. The Location sensitive service checks for any Time Constraints. 3. (Assuming there are Time Constraints) <ol style="list-style-type: none"> a. The Location Sensitive Service compares with the current Time and Date b. If the Time and Date match the Time Constraints, all Actions for the Location Sensitive Service are engaged. 4. (Assuming no Time Constraints) <ol style="list-style-type: none"> a. The Location Sensitive Service engages all Actions specific to that Location Sensitive Service. |

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| Goal | User leaves a specified location in with a Location Sensitive Service has been created. |
| Initial State | User can be using or not using their phone. |
| Final State | User is using or not using their phone |
| Steps | <ol style="list-style-type: none"> 1. User leaves a specific location, where a location sensitive service has a specific location. 2. The Location sensitive service checks for any active location sensitive services. 3. (Assuming there are active services) <ol style="list-style-type: none"> a. Return the phone to the state that it was before the services took effect (e.g. do not turn the ringer back on if the ringer was off before service started) 4. (Assuming no active services) <ol style="list-style-type: none"> a. Do nothing. |