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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.

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

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

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

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

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

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

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



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

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



<b>Goal</b>	User leaves a specified location in with a Location Sensitive Service has been created.
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<b>Initial State</b>	User can be using or not using their phone.
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<b>Final State</b>	User is using or not using their phone
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<b>Steps</b>	<ol style="list-style-type: none"><li>1. User leaves a specific location, where a location sensitive service has a specific location.</li><li>2. The Location sensitive service checks for any active location sensitive services.</li><li>3. (Assuming there are active services)<ol style="list-style-type: none"><li>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)</li></ol></li><li>4. (Assuming no active services)<ol style="list-style-type: none"><li>a. Do nothing.</li></ol></li></ol>
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