

PotlachClient	PotlachCommon	PotlachCloudServices
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REQUIREMENT	CLASSES (.java) & Files (.xml)
<b>1. Basic Project Requirement:</b> App supports multiple users via individual user accounts	<div> <b>LoginScreenActivity</b>  <b>RegisterActivity</b>  <b>SettingsActivity</b> </div> <div> <b>User</b> </div> <div> <b>UserController</b>  <b>UserRepository</b>  <b>OauthUser</b>  <b>ClientAndUserDetailsService</b> – Lines 36-48  <b>OAuth2SecurityConfiguration</b> – Lines 68-126 </div>
<b>2. Basic Project Requirement:</b> App contains at least one user facing function available only to authenticated users	<div> <b>LoginScreenActivity</b> – Line 42-68  <b>PotlachContext</b> – Line 50  <b>PotlachSvc</b> – Lines 48-56  <b>GiftListActivity</b> – Lines 195 – 236 </div> <div> <b>User</b>  <b>UserSvcApi</b> – Line 48 </div> <div> <b>UserController</b> – Lines 80-89  <b>UserRepository</b>  <b>OauthUser</b>  <b>ClientAndUserDetailsService</b> – Lines 36-48  <b>OAuth2SecurityConfiguration</b> – Lines 68-126 </div>
<b>3. Basic Project Requirement:</b> App comprises at least 1 instance of each of at least 2 of the following 4 fundamental Android components: <ul style="list-style-type: none"> <li>- Activity</li> <li>- BroadcastReceiver</li> <li>- Service</li> <li>- ContentProvider</li> </ul>	Activity: <b>ChainActivity</b> <b>AndroidManifest</b> – Lines 37,38  BroadcastReceiver: <b>UpdatesReceiver</b> <b>AndroidManifest</b> – Lines 48  Service: <b>ThreadPoolDownloadService</b> <b>AndroidManifest</b> – Lines 46
<b>4. Basic Project Requirement:</b> App interacts with at least one remotely-	<b>LoginScreenActivity</b> – Line 51

hosted Java Spring-based service	<i>UserSvcApi</i> – Line 48
	<i>UserController</i> – Line 81 <i>OAuth2SecurityConfiguration</i> – Lines 68-126
<b>5. Basic Project Requirement:</b> App interacts over the network via HTTP	<i>PotlachSvc</i>
	<i>SecuredRestBuilder</i>
	<i>OAuth2SecurityConfiguration</i> – Lines 68-126
<b>6. Basic Project Requirement:</b> App allows users to navigate between 3 or more user interface screens at runtime	<i>LoginScreenActivity</i> <i>RegisterActivity</i> <i>GiftListActivity</i> <i>ChainActivity</i> <i>UserGiversListActivity</i> <i>AndroidManifest</i> – Lines 22-44
<b>7. Basic Project Requirement:</b> App uses at least one advanced capability or API from the following list (covered in the MoCCA Specialization): multimedia capture, multimedia playback, touch gestures, sensors, animation.**  **Learners are welcome to use ADDITIONAL other advanced capabilities (e.g., BlueTooth, Wifi-Direct networking, push notifications, search), but must also use at least one from the MoCCA list.	<i>GiftActivity</i> – Lines 133-163 (open multimedia capture)  <i>GiftActivity</i> – Lines 169-209 (catch multimedia capture)
<b>8. Basic Project Requirement:</b> App supports at least one operation that is performed off the UI Thread in one or more background Threads of Thread pool.	<i>ChainActivity</i> – Lines 80-109 <i>ViewHolder</i> – Line 59 <i>ThreadPoolDownloadService</i> – Lines 29-48

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REQUIREMENT	CLASSES
<b>1. Functional Description and App Requirement:</b> App defines a <i>Gift</i> as a unit of data containing an image, a title, and optional accompanying text.	<i>GiftActivity</i> – Line 63
	<i>Gift</i>
<b>2. Functional Description and App Requirement:</b> A <i>User</i> can create a Gift by taking a picture (or optionally by selecting an image already stored on the device), entering a title, and optionally typing in accompanying text.	<i>GiftActivity</i> - Lines 125-166 <i>GiftActivity</i> - Lines 168-209 <i>GiftActivity</i> – Line 63 <i>GiftActivity</i> - Lines 70-91
<b>3a. Functional Description and App Requirement:</b> Once the Gift is complete the User can post the Gift to a <i>Gift Chain</i> (which is one or more related Gifts).	<i>GiftActivity</i> - Lines 77-88
	<i>Chain</i>
<b>3b. Functional Description and App Requirement:</b> Gift data is stored to and retrieved from a web-based service accessible in the cloud.	<i>GiftListAdapter</i> – Line 157 <i>ViewHolder</i> – Line 59 <i>ThreadPoolDownloadService</i> <i>DownloadUtils</i> – Lines 53-88
	<i>GiftSvcApi</i> – Lines 77-79
	<i>GiftController</i> – Lines 319-333
<b>3c. Functional Description and App Requirement:</b> The post operation used to store Gift data requires an authenticated user account	<i>GiftActivity</i> – Line 72 <i>PotlachContext</i> – Lines 63, 54 <i>PotlachSvc</i> – Lines 48-57
	<i>Gift</i> <i>GiftSvcApi</i>
	<i>GiftController</i> – Lines 304-317 <i>OAuth2SecurityConfiguration</i> – Lines 68-126

<b>4. Functional Description and App Requirement:</b> Users can view Gifts that have been posted.	<b><i>GiftListActivity</i></b> <b><i>GiftListAdapter</i></b>
	<b><i>Gift</i></b> <b><i>GiftSvcApi</i></b>
	<b><i>GiftController</i></b> – Lines 265-289
<b>5a. Functional Description and App Requirement:</b> Users can do text searches for Gifts performed only on the Gift's title.	<b><i>GiftListActivity</i></b> – Lines 39,40 <b><i>GiftListActivity</i></b> – Lines 67-82 <b><i>GiftListActivity</i></b> – Line 202
	<b><i>Gift</i></b> <b><i>GiftSvcApi</i></b> – Line 36, 61, 62
	<b><i>GiftController</i></b> – Lines 278-289
<b>5b. Functional Description and App Requirement:</b> Gifts matching the search criterion are returned for user viewing.	<b><i>GiftListActivity</i></b> – Line 202 <b><i>GiftListActivity</i></b> – Lines 209-228
<b>6a. Functional Description and App Requirement:</b> Users can indicate that they were <i>touched</i> by a Gift, at most once per Gift (i.e., double touching is not allowed)	<b><i>GiftListAdapter</i></b> – Lines 203-225
	<b><i>User</i></b> <b><i>Gift</i></b> <b><i>Flag</i></b>
	<b><i>GiftController</i></b> – Lines 79-105 <b><i>GiftController</i></b> – Lines 107-134
<b>6b. Functional Description and App Requirement:</b> Users can flag Gifts as being obscene or inappropriate. Users can set a preference that prevents the display of Gifts flagged as obscene or inappropriate.	<b><i>GiftListAdapter</i></b> – Lines 227-249
	<b><i>User</i></b> <b><i>Gift</i></b> <b><i>Flag</i></b>
	<b><i>GiftController</i></b> – Lines 136-162 <b><i>GiftController</i></b> – Lines 164-191
<b>7a. Functional Description and App Requirement:</b> Touched counts are displayed with each Gift	<b><i>GiftListAdapter</i></b> – Lines 113-134

<p><b>7b. Functional Description and App Requirement:</b></p> <p>Touched counts can be periodically updated in accordance with a user-specified preference (e.g., Touched counts are updated every 1, 5 or 60 minutes) or updated via push notifications for continuous updates.</p>	<p><i><b>RegisterActivity</b></i>  <i><b>SettingsActivity</b></i>  <i><b>GiftListActivity</b></i>  <i><b>UpdatesReceiver</b></i></p> <p><i><b>User</b></i></p>
<p><b>8. Functional Description and App Requirement:</b></p> <p>App can display information about the top “Gift givers,” i.e., those whose Gifts have touched the most people.</p>	<p><i><b>GiftGiversListActivity</b></i>  <i><b>UserGiversListActivity</b></i></p>
	<p><i><b>User</b></i>  <i><b>Gift</b></i>  <i><b>Flag</b></i></p>
	<p><i><b>FlagController</b></i> – Lines 61-102  <i><b>FlagController</b></i> – Lines 104-145</p>