**Requirements**

**1. Add Beer**

**User has buttons to click**

* **GUI Interface**
* **Backing platform (Android, Swing, ios, etc)**

**Interface is intuitive**

* **GUI Layout**

**User can open Add Beer form**

* **GUI**
* **Read the list of properties and build form accordingly**
* **Validate user input, when possible**

**User can save beer**

* **Database with write access**

**Add custom field to beer info**

* **Build custom XML descriptor file**
* **Save XML file**
* **Load custom XML file**

**User can comment on beer**

* **Comment property of beer**

**User can add picture of beer**

* **Use camera to take picture**
* **Use existing picture on disk**
* **Need to view picture**
* **Needs to resize image**

**User can crop image**

* **Interface to crop**
* **Store cropped image**

**2. Edit Beer**

**User has buttons to click**

* **GUI Interface**
* **Backing platform (Android, Swing, ios, etc)**

**Interface is intuitive**

* **GUI Layout**

**User can open Add Beer form**

* **GUI**
* **Read the list of properties and build form accordingly**
* **Validate user input, when possible**

**User can save beer**

* **Database with write access**

**Add custom field to beer info**

* **Build custom XML descriptor file**
* **Save XML file**
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**User can comment on beer**

* **Comment property of beer**

**User can add picture of beer**

* **Use camera to take picture**
* **Use existing picture on disk**
* **Need to view picture**
* **Needs to resize image**

**User can crop image**

* **Interface to crop**
* **Store cropped image**

**3. View Beer**

**Interface displays all filled fields**

* **Entered beer**
* **Database read access**

**User can open Edit Mode**

* **Button on view to open edit**
* **Edit Beer is implemented**

**Beer Carousel**

* **Entered beers**
* **Pictures of beers entered**

**Swipe to Next Beer**

* **Automatically find next beer**

**View beer on map**

* **Map implemented**
* **Coordinates stored on beer**

**4. Map**

**User can open map**

* **GUI button**
* **Google maps implemented**
* **Current location is displayed**
* **GPS is enabled and allowed**

**User can view nearby beers as pins**

* **Beers stored with locations**
* **Current location**
* **Database**

**Display Beer by clicking on Pin**

* **Beers stored with location**
* **List popup**
* **Database**

**View List Popup**

* **Entered Beers**

**User can view beer by clicking in list**

* **View beer implemented**

**Find Nearby beer friends**

* **Cloud database**
* **NSA style friend tracking**

**5. View Random Beer**

**User can click random beer button**

* **GUI**

**User can view random beer**

* **Beers entered in database**
* **Random number generated**
* **View beer implemented**

**View random friend’s beer**

* **Cloud database**
* **Data sharing**

**6. List Beer**

**User can view list**

* **List layout, scrollable**
* **Ability to select by clicking**
* **Beers entered in database**
* **Read access to database**

**Filter list by properties**

* **Can query database and load subset of all entered beers**
* **Dynamically load list by defined properties including custom properties**

**User can view Beer**

* **View beer implemented**

**Lazy loading of Scroll List**

* **Pagination mechanism**

**7. Search**

**User can search beers**

* **Entered beers**
* **Ability to query database**
* **Searches all text entered (name has highest priority)**

**View Search results**

* **List Beers implemented**

**Search Internet/Open Browser**

* **Internet connection**
* **Google search implemented**

**Pick Fields to search by**

* **List of fields populated dynamically**
* **Advanced search popup**

**Search Cloud Database**

* **Cloud database**
* **Web service to search**