

Project Problem Description

You are to design and implement an attractive, usable, interactive Android application to help satisfy the following user's goals. Your design should be flexible enough to allow future developers to extend it to, for example, add new types of entries (see below).

User's Problem Description

We want to be able to discuss locally (as in physically locally) relevant topics. We want to have a threaded discussion of comments about local things, items, local things, vendors, landmarks, etc. Fundamentally we want discussion threads (of comments) to be bound to a place (like a GPS location).

We also want these discussion comments to be augmented by image attachments, preferably locally sourced (as in one took a photo at that location).

Imagine <http://slashdot.org/> but geo-location aware.

Needs in (Partial) User Story Form

User needs are expressed in the form of partial user stories:

as a <role>, I want <goal>

as a <role>, I want <goal> so that <reason>

These descriptions may change to correct omissions and clarify noticed issues.

As a user, I want to sort comments by proximity to me.

As a user, I want to sort comments by proximity to another location.

As a user, I want to make new top-level comments (comments with no parents).

As a user, I want to browse top-level comments.

As a user, I want to browse comment replies.

As a user, I want to reply to comments.

As a user, I want to attach a picture to my comment.

As a user, I want to sort comments by pictures.

As a user, I want to sort comments by date or some scoring system (data + proximity).

As a user, I want comments that I read or comments that I've indicated I want to read, to be locally cached so I can read them when I am not on the internet.

As a user, I want to explicitly some comments as **favorites**.

As a user, My favorites and their replies should always be available to me regardless of network connectivity.

As a comment **author**, I want to my comment (because I don't have the grammars).

As a comment author, if I have internet, I want my comments and with **all other users** of the app immediately.

As a user, I want to see the latest greatest comments immediately.

As a user, be default, I should see the most fresh comments.

As a comment author, my **geo-location** should be the default location of the comment I am authoring.

As a comment author, I want to the geo-location of my comment.

As a user, if my phone connects to the internet while this app is open it should all the latest and greatest and most relevant comments. For example imagine you're on the LRT and you get off at Health Sciences and now you have 3G again, you want those comments that are new and near Health Sciences.

As a comment author, I my **username**.

As a comment **reader** I see the commenters' username.