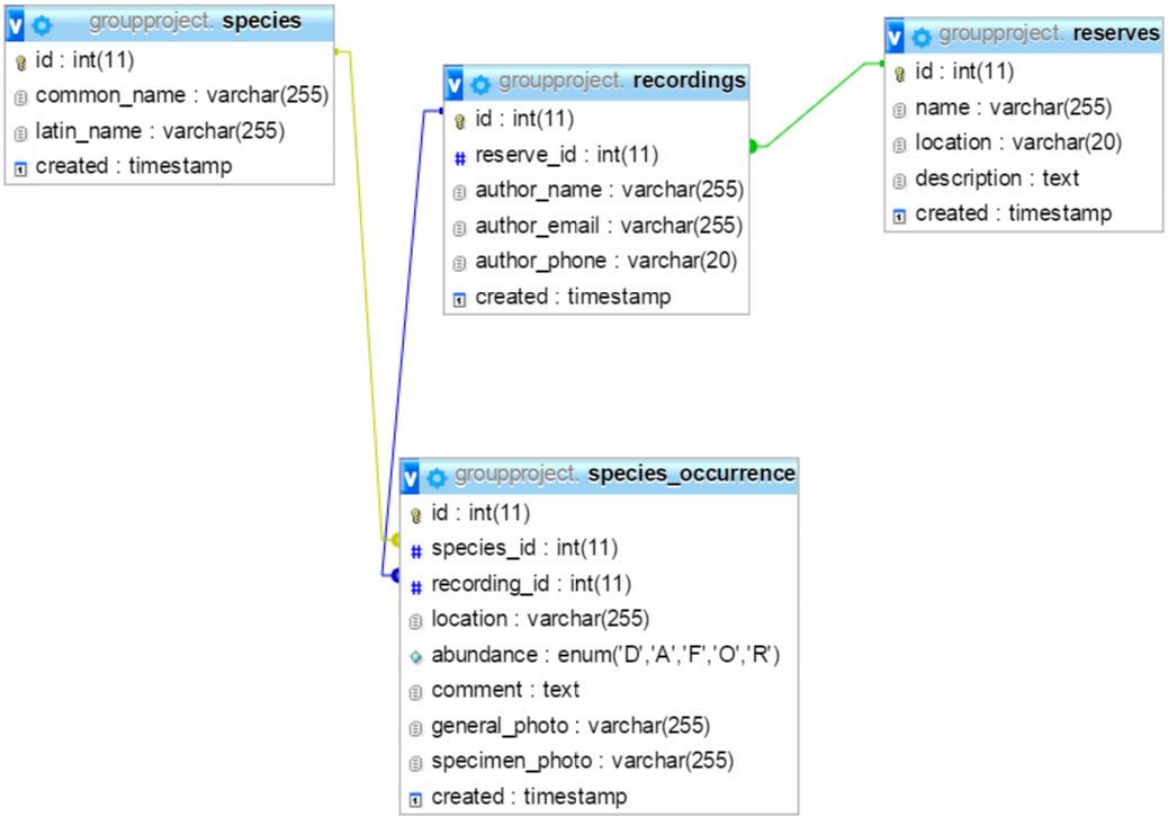
DB Schema Ideas

Below is a graphical view of my ideas for the DB schema along with any relations. This was created using a MySQL database.



Species Table

So this table would contain both the common and latin names for the species, which we can obtain from the BSBI list. These would be stored as varchars. It also contains the ID as a primary key and a created timestamp.

Reserves Table

The reserves table would contain the name, location (OS grid ref as per spec) and description of the reserve. The name and location would be stored as varchar and the description would be stored as text. As before it would contain the ID as the primary key and a created timestamp.

Recordings Table

The recordings table would contain a reserve id which would be related to the primary key of the reserves table. It also contains the author's name, email and phone which would be recorded by the android app. The author fields would be stored as varchar (including phone number as int would truncate the first 0). As before it also contains its own ID as the primary key and a created timestamp.

Species Occurrence Table

The species_occurrence table contains both the species ID and the recording ID which are both related to the relevant tables. This would contain each individual occurrence of a species on a per recording basis. This way we would be able to get all the different species recorded on a particular recording and/or on a particular reserve. This table also contains the location of where the species was found (as GPS co-ordinates), the abundance, a comment, and URLs (?) to both the general and specimen photos. The location and photos will be stored as varchars (although it may be better to store location as longitude/latitude?), whereas the comment will be stored as text. In the case of abundance I have used enum as we're choosing from a specific range of options. As before it also contains ID as its primary key and a created timestamp.