For this part of the project your job is to develop a preliminary design of the user interface for your application and an initial ER diagram. Turn in your answers to the following parts in class by the due date. Be sure to put the name of each group member on your paper as well as your group name.

**Part I: Screen Mockups.** Develop a set of “mockups” for your database application. A mockup can be a hand-drawn sketch or a drawing of a logical unit of your user-interface, which is typically a “screen” or a “page” in your application. Since you aren’t required to create a Graphical UI for your application, you can either mockup the text-based interaction of the user or the graphical pages (even if you later decide not to create a GUI). Note that your application must allow users to view and search for relevant data as well as enter, delete, and modify data. However, the user won’t use any SQL, and instead, all interaction will occur through your user interface. Each “page” or “screen” of your application should be sketched in terms of its input (what information the user enters) and output (what is displayed to the user). You can capture your mockups using pen and paper, using a drawing program, or through basic prototypes (e.g., basic “dummy”/“stubbed out” forms). Each mockup should include a name (e.g., “user search page”) and a short 1–2 sentence description of how it will work.

**Part II: ER Diagram.** Once you have developed your mockups, create an initial ER diagram (ERD) for your application. Identify all entity sets, attributes, keys, relationship sets, relationship attributes, weak entities, and cardinality constraints relevant for your application. Be sure to provide a short description of your diagram for any parts that might be confusing, unclear, or hard to follow. You can capture your ER diagram using pen and paper, using a drawing program, or any other application for drawing ER diagrams.