**A. Accounts and Groups**

1. ~~A user can sign up for an account via a webpage.~~
2. An administrator account exists.
3. Users can be organized into groups, each with a unique name. Groups exist for the primary purpose of sharing access to report info that is otherwise private, i.e. not accessible by other users.
4. A member of a group can add another user to that group.

**B. Administrator user role:**

1. Admin users can give other users admin status.
2. Admins can create groups, and assign any user to a groups.
3. Admins can suspend a user account.

**C. Reports:**

1. ~~Reports are associated with (or "owned by") the reporter that created them.~~
2. ~~Info a reporter provides for each report include the following. (Those labeled "optional" do not have to be proved by a reporter when creating a report.)~~
   1. ~~Timestamp when report created.~~
   2. ~~Short description. (Say one line of text.)~~
   3. ~~Detailed description. (Longer.)~~
   4. ~~Location (optional)~~
   5. ~~Date of incident being reported (optional).~~
   6. ~~User-supplied keywords (optional)~~
   7. ~~One or more files (optional). The report has the option to encrypt the files. Any file format can be uploaded.~~
   8. ~~Whether the report is public or private.~~
3. Private reports will not be searchable or visible in any other way, unless the reporter gives access to a group. (Optional: the report can also give an individual access to a private report.)
4. ~~Reports can be deleted by the original reporter or an admin user.~~
5. ~~A user can create a folder, and store reports they create(d) into a folder (in some manner).~~
6. Owners of reports and folders can rename and delete reports and folders (in some manner).
7. Owners of reports can edit an existing report, i.e. change information stored in the report.

**D. Display and Search through the Web Interface:**

1. A user can list all reports (accessible to that user) in a user-friendly way.
2. A user can list fewer reports by using search.
3. Search results are controlled by matching search criteria to one or more fields.
4. Combining searches with ANDs, ORs, or other non-trivial search control is highly desirable.
5. Access rules for private reports will be enforced, except that admin users can see all reports.

**F. File Download Application**

1. ~~A stand-alone application can be run on a machine and communicate with the Django server.~~
2. ~~A user of this program will be able to:~~
   1. ~~Authenticate.~~
   2. ~~See a list of reports. (This does not have to be as sophisticated as for the web-interface.)~~
   3. ~~Choose a report, display it, and allow the user to download the file or files for that report.~~
   4. ~~Decrypt files if they are encrypted.~~

**G. Security requirements**

~~(The following are more constraints or general features than specific requirements. Teams have liberty in how they define the security requirements and design features of their system.)~~

1. ~~A reporter can choose for files attached to reports to be encrypted. Other text entered into reports is plaintext.~~
2. ~~Encrypted files can downloaded and decrypted by the stand-alone program. This program will somehow get the key needed to decrypt the file.~~
3. ~~We would like you to make use of: public key encryption for encryption and signing. Hash functions should be used somehow to allow a reader of a report and/or file to verify its integrity.~~
4. ~~In planning the system, some requirements should be defined that address security issues (authorization, authentication, integrity, confidentiality, accessibility, etc.).~~

**H. Developer Issues:**

1. Implementing core features will count towards approximately 90% of the earned credit for the project. Up to another 15% will be based on Additional Features beyond the core features.
2. User interface quality is not a priority for the project this term. A minimal user interface is fine. You won't earn many extra points for a fabulous interface.
3. The File Download Application can have a command-line interface and not a GUI. (But a GUI on this will count towards your "additional features", i.e. those required beyond the core features.)