a. **Team:**

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b. **Title:** OTR Messenger

c. **Description:** A chat client that implements an Off-The-Record (OTR) protocol of communication. OTR allows clients to talk with each other in an encrypted fashion with repudiation – meaning a client can later deny having sent something.

d. **Actors:**

- Clients – who can chat with each other;
- Admin – who maintains the server

e. **Functionality:**

- Clients can sign up
- Clients can log in
- Clients can communicate with other clients
- Clients can add other clients to their friends list by name
- Clients can view their friends list
- Admin can launch or terminate server

f. **Stretch Functionality:**

- Admin can query server for full list of clients

g. **Considered Design Patterns:**

- Observer – for monitoring chat clients
- Proxy – for setting up connections and relaying messages
- Memento – for saving old conversations
- Command (undo) – for deleting (and undoing the delete) conversations