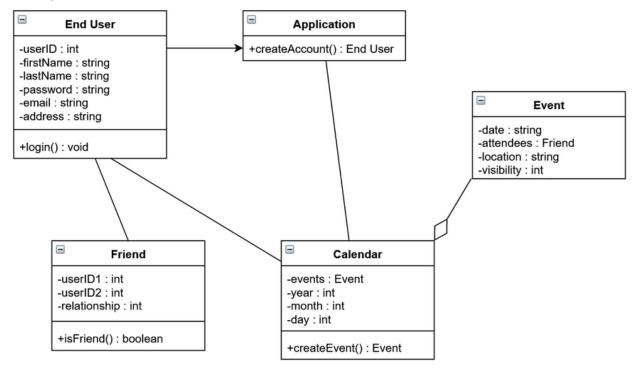
The class diagram for the core system is shown below, with descriptions of the classes following the diagram.



End User: A class that stores all relevant user information.

- **userID:** Unique username used when logging into the system.
- **firstName/lastName:** The user's first/last name.
- **password:** The user-defined password to protect their information.
- email: The user's email address.
- address: The user's home address.
- login(): Function allowing the user to log into their account.

Application: Singleton class that displays the UI and contains the Calendar class within it.

• createAccount(): Function to create new End User objects.

Friend: A data structure that contains all friend relationships in the database.

- userID1/userID2: IDs of both users defining the relationship.
- relationship: numerical representation of the relationship of the two users.
- **isFriend():** Function that returns whether or not the two users are friends.

Calendar: A class that contains current date/time information as well as handles creation and modification of child Event objects.

- events: List of Events contained within the Calendar object.
- year: Current year.
- month: Current month.
- day: Current day.
- **createEvent():** Function to create a new Event with all required information.

Event: A child of Calendar containing all relevant information pertaining to its own event.

• date: The date the Event is occurring on.

- attendees: List of Friends who have access to the Event.
- **visibility:** Whether or not the Event is public, friends only, or private.