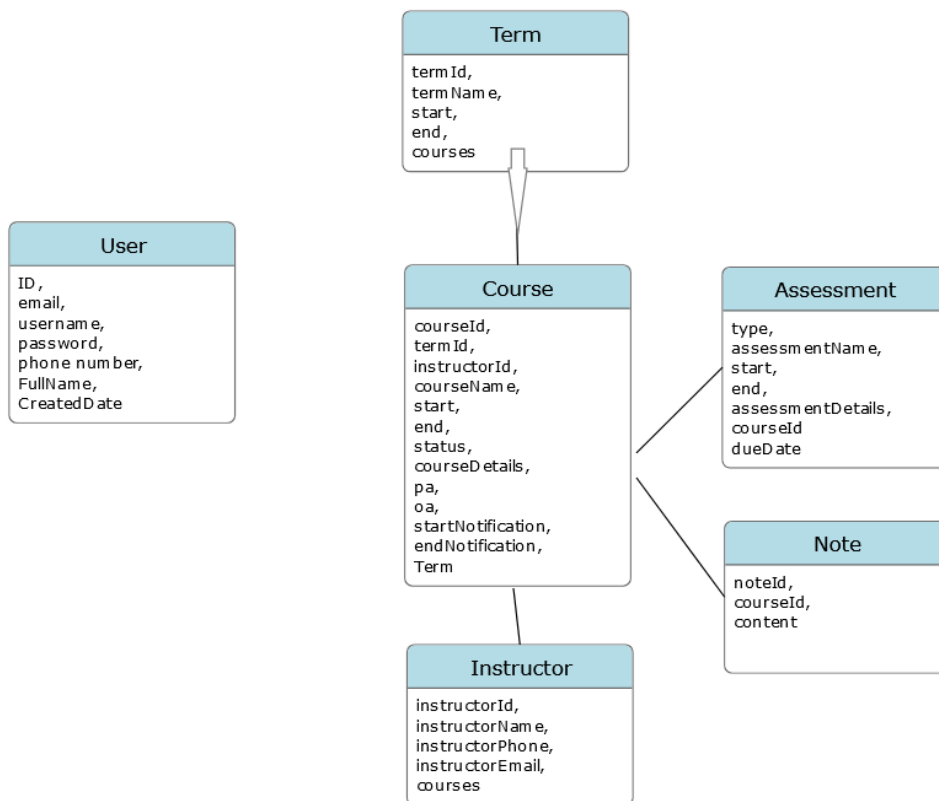# WGUapp Design Documentation

The app has been designed with a bi-directional flow in mind, in an attempt to make the app linear to navigate for students of all backgrounds.

- **User** is a class that is standalone
- **Term** is the foundational class
- **Course** is the central connecting class, and relies on **Term**
- **Instructor**, **Assessment**, and **Note** all rely on **Course** as ternary classes.

Term
```
termId,
termName,
start,
end,
courses
```

User
```
ID,
email,
username,
password,
phone number,
FullName,
CreatedDate
```

Course
```
courseId,
termId,
instructorId,
courseName,
start,
end,
status,
courseDetails,
pa,
oa,
startNotification,
endNotification,
Term
```

Assessment
```
type,
assessmentName,
start,
end,
assessmentDetails,
courseId
dueDate
```

Note
```
noteId,
courseId,
content
```

Instructor
```
instructorId,
instructorName,
instructorPhone,
instructorEmail,
courses
```

Please note that the design is almost completely relational, so the purpose of the design is to have intermediary links in a logical sense so that both the maintainers and users can understand what is going on.

- Each class has relevant fields to *describe* their purpose/requirements.
- Common examples include start and end dates of the class object, or ID numbers.
- Another example is a link field, such as a list of courses that the instructor teaches which is the foundation to a relational database design.

WGUapp Design Documentation

The flow design is meant to be simple and bidirectional as mentioned on the previous page. This means the user should be able to traverse in either direction, seamlessly. If this design diagram is easy to look at, that's good! That means the user will also have an easy time getting the hang of things, and minimal training will be required.

- The user must first login (or register if they haven't yet) in order to "enter the door to the house" if you will.
- Then, the MainPage will appear. This is where the most content is: Reports, Terms, and their each of the said Term courses of the selected Term. Note: the user can Logout as well on the top right corner!
- If a report button is clicked, a new page will appear in a table like format. There is search functionality to narrow down the results if the user so chooses. There are by default: 3 reports.
- If the user clicks on the mentioned courses listed under the selected term, a new page will also appear. This has all the information and details anyone could want about an individual course.
- Here, an instructor, assessment, notes, and notifications can be set or changed! It is always easy to go back with the "back arrow" at the top left as well.

Design Diagram