# Trace Matrix

| REQ | PW | UC1 | UC2 | UC3 |
|---|---|---|---|---|
| 1 | 5 | X | | |
| 2 | 3 | X | | |
| 3 | 5 | X | X | |
| 4 | 2 | | | X |
| 5 | 3 | | X | X |
| 6 | 2 | | | X |

# Use Case 1

## Related Requirements:

REQ 1,2,3

## Initiating Actor:

Student

## Actor's Goal:

Submit project idea to database

## Participating Actors:

Student, Reviewer

## Preconditions:

The database has fields for every input in the submit form.

The reviewer is avaliable and actively reading emails.

## Postconditions:

The database is connected to the frontend and displaying the new project idea.

## Flow of Events for Main Success Scenario:

1. Student visits the site and clicks "Submit a Project Idea"
2. Student fills out a form and clicks "Submit"
3. The contents of the form are formatted into an email, which is sent to a reviewer
4. The reviewer signals approval
5. The contents of the form are added to the project database
6. The project idea appears in the web frontend

# Use Case 2

## Related Requirements:

Automatic sql add

## Initiating Actor:

Parker Engle

## Actor's Goal:

Automatically send email

## Participating Actors:

Parker Engle, Dean Atwood

## Preconditions:

The database has space / fields for incoming project information

## Postconditions:

Emails are recieved and able to be reviewed, then the information is moved to sql table.

## Flow of Events for Main Success Scenario:

1. Student submits project idea
2. Email is automatically sent out to selected email (Dean Atwood)
3. Information is added to temp table in sql
4. Project is reviewed and is either accepted or rejected
5. If accepted, information of the project goes into sql table, and is now viewable on the website.

# Use Case 3

## Related Requirements:

Use case 4, 5 and 6

## Initiating Actor:

Student

## Actor's Goal:

View projects stored in the database for project inspiration

## Participating Actors:

Student, Dean Atwood(for approval of ideas prior to viewing)

## Preconditions:

Idea is approved either from submission page or added manually by dean Atwood

## Postconditions:

Idea can be updated or removed once a student has taken or completed it

## Flow of Events for Main Success Scenario:

1. Student goes to www.ideas.etowndb.com

2. Students select "Projects"

3. Choose search criteria

4. View projects and details