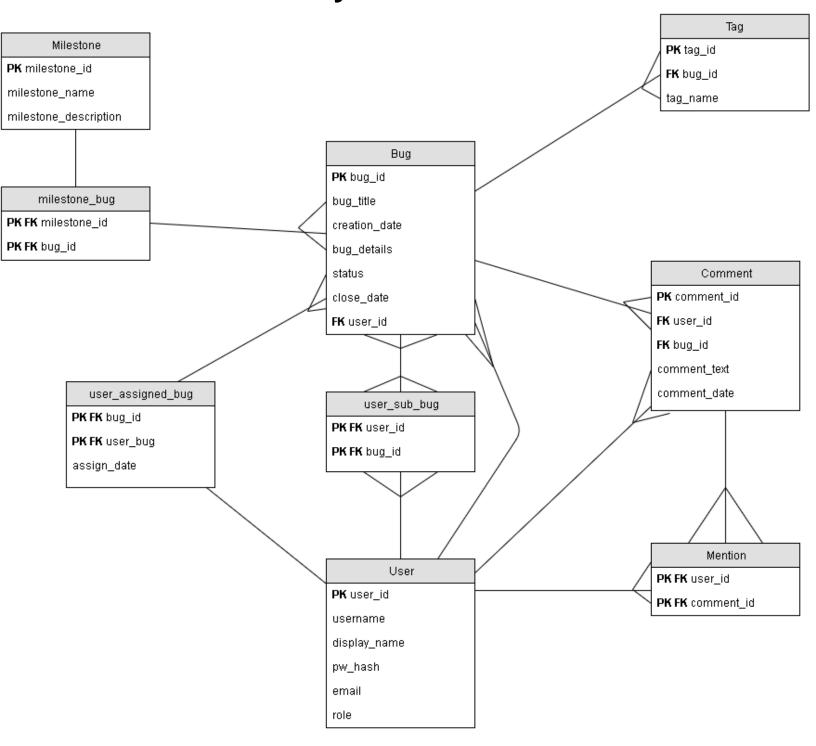
Group: RR3

Dennis Bruce Gilbert Amador Michael Pritchett

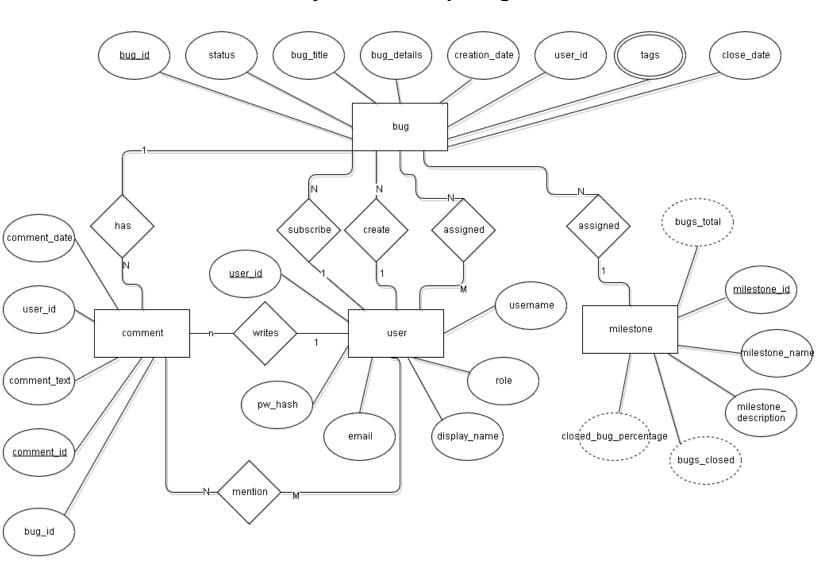
Instructions

To grade our project, you should click through all the links to try to use the basic functions and test the results to the database.

Physical Model



Entity-Relationship Diagram



Database DLL

```
create TABLE bug (
    bug id integer not null default
nextval('bug bug id seq'::regclass),
   bug title varchar not null,
    creator id integer not null,
    creation date timestamp not null default now(),
   bug details varchar default ''::character varying,
    status stat not null default 'open'::stat,
    close date timestamp,
    PRIMARY KEY (bug id),
   FOREIGN KEY (creator id) REFERENCES "user" (user id)
);
CREATE UNIQUE INDEX bug pkey ON bug (bug id);
CREATE UNIQUE INDEX bug bug title key ON bug (bug title) create
TABLE comment (
    comment id integer not null default
nextval('comment comment id seq'::regclass),
    author id integer not null,
    bug id integer not null,
    comment text varchar not null,
    comment date timestamp not null default now(),
    PRIMARY KEY (comment id),
    FOREIGN KEY (author id) REFERENCES "user" (user id),
    FOREIGN KEY (bug id) REFERENCES bug (bug id)
);
CREATE UNIQUE INDEX comment pkey ON comment (comment id) create
TABLE mention (
    user id integer not null,
    comment id integer not null,
    PRIMARY KEY (user id, comment id),
   FOREIGN KEY (user id) REFERENCES "user" (user id),
    FOREIGN KEY (comment id) REFERENCES comment (comment id)
);
CREATE UNIQUE INDEX mention pkey ON mention (user_id,
comment id) create TABLE milestone (
    milestone id integer not null default
nextval('milestone milestone id seq'::regclass),
    milestone name varchar not null,
   milestone description varchar not null default ''::character
varying,
    PRIMARY KEY (milestone id)
CREATE UNIQUE INDEX milestone pkey ON milestone (milestone id);
```

```
CREATE UNIQUE INDEX milestone milestone name key ON milestone
(milestone name) create TABLE tag (
    tag id integer not null default
nextval('tag tag id seq'::regclass),
   bug id integer not null,
    tag name varchar not null,
    PRIMARY KEY (tag id),
    FOREIGN KEY (bug id) REFERENCES bug (bug id)
CREATE UNIQUE INDEX tag pkey ON tag (tag id)create TABLE "user"
    user id integer not null default
nextval('user user id seq'::regclass),
   username varchar not null,
    display name varchar not null,
   pw hash varchar not null,
    email varchar not null,
    role user role not null default 'user'::user role,
   PRIMARY KEY (user id)
);
CREATE UNIQUE INDEX user pkey ON "user" (user id);
CREATE UNIQUE INDEX user username key ON "user" (username);
CREATE UNIQUE INDEX user display name key ON "user"
(display name);
CREATE UNIQUE INDEX user email key ON "user" (email) create TABLE
user assigned bug (
    user id integer not null,
    bug id integer not null,
    assign date timestamp not null default now(),
    PRIMARY KEY (user id, bug id),
    FOREIGN KEY (user id) REFERENCES "user" (user id),
    FOREIGN KEY (bug id) REFERENCES bug (bug id)
);
CREATE UNIQUE INDEX user assigned bug pkey ON user assigned bug
(user id, bug id) create TABLE user sub bug (
    user id integer not null,
   bug id integer not null,
    PRIMARY KEY (user id, bug id),
    FOREIGN KEY (user id) REFERENCES "user" (user id),
    FOREIGN KEY (bug id) REFERENCES bug (bug id)
CREATE UNIQUE INDEX user sub bug pkey ON user sub bug (user id,
bug id);
```

Page Descriptions

PAGE	URL	DESCRIPTION	STATUS
Default	/	a user that isn't logged in can browse bugs and look at comments	finished
User splash page	/home/ <user_id></user_id>	like the default page but takes user to user specific links	finished
Registration	/reg	Uses the user table, making a list of all the people that have registered.	finished
Login	/login	Uses the user table. Is where the users login so that they are able to make more bugs and comment on existing bugs.	finished
User profile	/user/ <int:user_id></int:user_id>	The profile page of the user. Uses the user and bug table, so that people who visit the profile page can see what bugs they are a part of.	finished
Bug description	/bug/ <int:bug_id></int:bug_id>	Uses the bug, mention, comment, tag, and subscription tables.	finished
Bug user	/bug/ <int:bug_id>/<int:user_id></int:user_id></int:bug_id>	same as bug description but has subscribe link for user	finished
Bug Comments	/bug/ <int:bug_id>/comments/<i nt:user_id></i </int:bug_id>	page that has comments for bugs	finished
Subscribe	/bug/ <int:bug_id>/<int:user_id>/ <string:subscribed></string:subscribed></int:user_id></int:bug_id>	subscribes or unsubscribes a user from a bug	finished
Milestone list	/milestone	list of all the milestones	finished
Milestone	/milestone/ <int:mile_id></int:mile_id>	Uses the bug and milestone tables. Shows all the bugs associated with a certain milestone.	finished
Browse	/browse/ <string:browse>/<string:filter>/</string:filter></string:browse>	Uses the bug and user tables. Let's a user search for a specific bug or browse through the list of bugs.	finished
Search	/search/ <string:text></string:text>	Lets user search for a string in a bug title or description	finished
User browse	/user_browse/ <int:user_id>/<str ing:browse="">/<string:status>/</string:status></str></int:user_id>	lets user search bugs related to them	finished
Bug creation	/newbug	Uses the bug and user tables. Allows a user to create a new bug.	finished
Newsfeed	/newsfeed/user/ <int:user_id></int:user_id>	Uses the bug, user, and subscribe tables. Is a place that shows all the bugs that someone is working on and what they may be subscribed to when they first happen.	finished

Mile-Stone Feature

The mile-stone feature will allow the users to track the progress of a bug. A mile-stone will be assigned a bug, meaning the mile-stone table will have a relationship with the bug table and a mile-stone can have multiple bugs.

Mile-stone will look at its bugs' statuses to derive the number of closed bugs. A progress percentage can be derived by the number of closed bugs divided by the total number of bugs.