



## Bug tracking system(first phase)

1. Sign up, login and logout of users(name, email, password, user\_type[developer, manager, qa])

• <http://railscasts.com/episodes/192-authorization-with-cancan>

1. manager/user can have many projects
2. the user can enter many bugs
3. a bug belongs to a creator(user)
4. a bug belongs to a developer who'll solve the bug(user)
5. a bug belongs to a project
6. a project can have many users
7. a project can have many bugs too.
8. the bug has a descriptive title and deadline and a screenshot, type, and status
9. screen shot should be an image either .png or .gif no other type of image is allowed

• <http://railscasts.com/episodes/253-carrierwave-file-uploads>

1. description, the screen shot is not compulsory but title and status and type are compulsory.
2. The title of a bug should be unique throughout the project
3. type can have two values (feature, bug)
4. status is a drop down having values (new, started, completed) if it's a feature or (new, started and resolved) if it's a bug.

Use Pundit Gem for Roles Authorizations. <https://github.com/elabs/pundit>

### Roles:

#### **Manager:**

1. Create Project.
2. Edit And Delete the projects he creates.
3. Add/Remove Developers and QA to the Projects he creates.

#### **Developer:**

1. Assign bug to himself. Pick up a bug from the list of his projects.
2. Can see only the projects he is part of.
3. Mark a bug resolved.
4. Can not see other projects.
5. Can not report Bug.
6. Can not delete a Bug.
7. Can not join any project.

#### **QA:**

1. Report Bugs to all projects.
2. Can see all projects
3. Can not edit/delete/create any project

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