Requirements

# Authorization requirements

The application shall allow anyone to register an account with username and password.

The application shall allow registered users to login to the application.

The application shall allow logged in users to change ONLY their own password.

The application shall allow logged in users to read all posts in the forum.

The application shall allow logged in users to write posts in the forum.

The application shall allow logged in users to delete ONLY their own posts.

The application shall allow logged in moderators and admins to delete other users’ posts.

The application shall allow logged in admins to upgrade normal users to moderators.

The application shall allow logged in admins to downgrade moderators to normal users.

# Immunity requirements

The application shall protect itself from injection of malicious code.

# Identification requirements

The application shall identify all of its human users before allowing them to use its capabilities.

# Authentication requirements

The application shall verify the identity of all its users before allowing them to use its capabilities.

The application shall verify the identity of all its users before allowing them to change their passwords.

# Intrusion detection requirements

The application shall detect and record all attempted accesses that fail identification and authentication requirements.

The application shall temporarily block access attempts from a source that has several recently failed access attempts.

# Privacy requirements

The application shall not allow unauthorized individuals or programs access to any communications.

The application shall not allow unauthorized individuals or programs access to any stored data.

# Nonrepudiation requirements

The application shall make and store tamper-proof records of the following information whenever a new post is made or an old post is edited or deleted:

* The contents of the post
* The date and time that the post was created or deleted.
* The identity of the user.