Assignment 5
OCL Document

- Context user::
  Invariant: self.login == true

- Context super_admin:: group_request(group_id: int): bool
  Pre: group_id > 0
  Post: group>exists()

- Context super_admin:: remove_user(user_id: int): bool
  Pre: user_id > 0 and user->exists()
  Post: user->delete()

- Context super_admin:: delete_group(group_id: int): bool
  Pre : group_id > 0 and group->exists()
  Post: group->delete()

- Context group_admin:: user_request(user_id: int): bool
  Pre: user_id > 0
  Post: user->exists()

- Context group_admin:: remove_user(user_id: int): bool
  Pre: user->exists()
  Post: user->delete()

- Context group_admin:: delete_event(event_id: int): bool
  Pre: event_id > 0 and event->exists()
  Post: event>delete()

- Context group::
  Inv: user->exists()

- Context group:: create_group(user): bool
  Pre: user->exists()
  Post: group->exists()

- Context events::
  Inv: group->exists()

- Context events:: create_event(event_id: int, event_name: String, event_description: String, members: int):
  Pre: event_id > 0 and event_name.length > 0 and event_description.length > 0 and members > 0
  Post: event->exists()

- Context post::
  Inv: group->exists()

- Context post:: create_post(post_id: int, content: string, reply_id: int): bool
  Pre: post_id > 0 and group->exists()
  Post: post->exists()

- Context post:: delete_post(post_id: int): bool
  Pre: post_id > 0 and post->exists()
  Post: post->delete()