

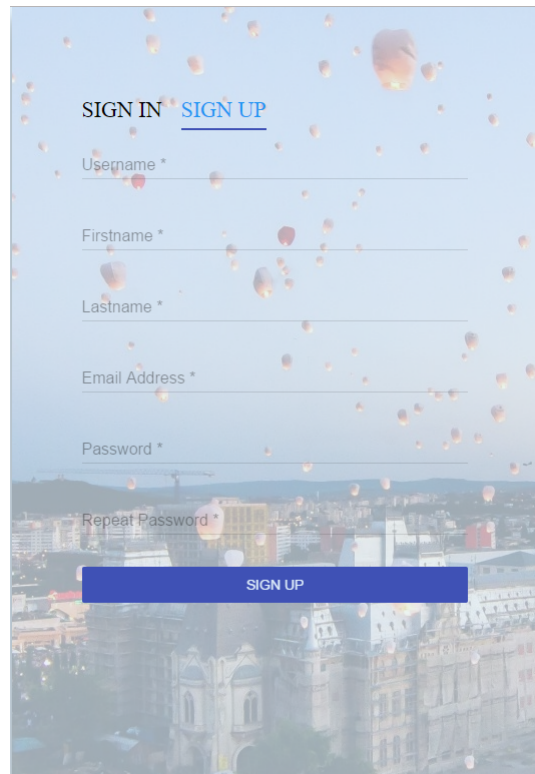
[SIGN IN](#) [SIGN UP](#)

Username *
Dan

Password *
••••••••

SIGN IN

[Forgot Password?](#)



[SIGN IN](#) [SIGN UP](#)

Username *

Firstname *

Lastname *

Email Address *

Password *

Repeat Password *

SIGN UP

Recover password

Enter your email adress and we will send you will receive a email with your new password.

Email adress

Reset password

[Return to login.](#)

GoodCitizen - Your password has been reset.



Inbox x



goodcitizenglobal365@gmail.com
to me ▾

Jun 17 (4 days ago) ☆



Greatings,

You new password is : KXHDBbWuBO

Have a good day.

GOOD CITIZEN

Logout

Profile

Near By

Followed

Won


Pending

Achievements

SEARCH ACHIEVEMENTS


Search Achievement

☐ City ☐ Nature ☐ Other ☐ People

 **Clean city!**
Category: City - Points: 60


Clean some area of a city.

TRY

 **Do something great!**
Category: Other - Points: 2

In order to get this achievement you need to do something that others will appreciate it.

TRY

 **For the greater good!**

GOOD CITIZEN

Logout

Profile

Near By

Followed

Won

Pending


Achievements

Nature First!

Insert your thoughts... *


I was part of an ecologization team.

Upload photo-proof for this achievement*



Change location

Padurea de Salcami, Târtășești, Dâmbovița



+ ADD

CANCEL

GOOD CITIZEN

Logout

Profile

Near By

Followed

Won

Pending

Achievements

PENDING ACHIEVEMENTS

Dan Cojocaru

Citizen - 0 points

Nature First!

Achievement - Nature - 6 points

Opened: 09:07:21 - 22/06/2017

I was part of an ecologization team.

Do something good for the nature, like cleaning out some area around you.

Likes: 0

Reports: 0

CANCEL

Dan Cojocaru

Citizen - 0 points

Clean city!

Achievement - City - 60 points

Opened: 07:35:01 - 22/06/2017

GOOD CITIZEN

Logout

Profile

Near By

Followed

Won

Pending

Achievements

FOLLOWED CITIZENS: PENDING

Adrian Duliba

Citizen - 1000 points

Homeless are people too!

Achievement - City - 60 points

Opened: 09:12:57 - 22/06/2017

I helped a homeless person today.

Help some homeless person with food, clothes or anything else.

Likes: 0

Reports: 0

LIKE

REPORT

display won achievements

GOOD CITIZEN

Logout

Profile

Near By

Followed

Won

Pending

Achievements

NEAR BY CITIZENS: PENDING

39

display won achievements


Adrian Duliba

Citizen - 1000 points

→

It is all about the next generation!

Achievement - People - 22 points



Opened: 09:19:51 - 22/06/2017

I was a teacher today. Those kids are Awsome!

Teach someone younger then you about the importance of being a good citizen.

Likes: 0

Reports: 0

LIKE

REPORT

GOOD CITIZEN

Logout

Profile

Near By


Followed

Won

Pending

Achievements

PROFILE



Username: Dan

Name: Dan Cojocaru

E-mail: dancojocaru13@gmail.com

EDIT PROFILE

6 points:

4 following

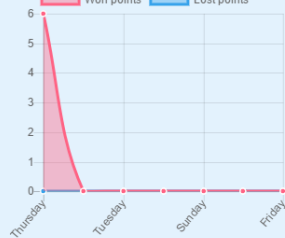
1 followers

1 communities

STATISTICS



Won points

Lost points



LATEST ACHIEVEMENTS

Nature First!

GOOD CITIZEN

Logout

Profile

Near By

Followed


Won

Pending

Achievements

EDIT PROFILE

Change your profile picture:



Username

Dan

First name *

Dan

Last name *

Cojocaru

Email *

dancojocaru13@gmail.com

Password *

SAVE

CANCEL

GOOD CITIZEN

Profile

Near By

Followed

Won

Pending

Achievements

FIND CITIZENS

Search citizens

d

Adrian Remus

rem435 0 points

Adrian Duliba

Duli 1000 points

GOOD CITIZEN

Profile

Near By

Followed

Won

Pending

Achievements

FIND COMMUNITIES

Search communities

Bird Fans.

1 members

LEAVE

Cat community

1 members

LEAVE

GOOD CITIZEN

Logout

Profile

Near By


Followed

Won

Pending

Achievements

COMMUNITY



LEAVE

EDIT

ADD ACHIEVEMENT

Bucharest. Y&F

~ Description ~

This group is destined to the people of Bucharest. Achievements in this community are for anybody who's feeling young and free.

Achievements

Activity

Members

Search citizens

Adrian Duliba

Duli 1000 points

+ ADD ADMIN

FOLLOWING

Dan Cojocaru

Dan 100 points

FOLLOW

Vasile Ionnes

Saionara 0 points

+ ADD ADMIN

FOLLOWING

GOOD CITIZEN

Logout

Profile

Near By


Followed

Won

Pending

Achievements

EDIT ACHIEVEMENT



Title *

Cats best!

Category

City

Number of likes

40

Number of points

30

Description

Adopting a cat is something you should be proud of.

SAVE

CANCEL

Profile

Near By

Followed

Won

Pending

Achievements

COMMUNITY

LEAVE

ADD ACHIEVEMENT

Iasi Area

~ Description ~

In this community are achievements focused on our beloved city, Iasi. Feel free to join this group to earn points by helping others. Welcome!

Achievements

Activity

Members

Search Achievement

☒ City

☐ Nature

☐ Other

☐ People

Cats best!

Category: City - Points: 30

Adopting a cat is something you should be proud of.

TRY

EDIT

I all about culture!

Category: City - Points: 40

You have to be part of a cultural event around Iasi. Our city culture define us as citizens so you better win this achievement.

Profile

Near By

Followed

Won

Pending

Achievements

COMMUNITY

LEAVE

Iasi Area

~ Description ~

In this community are achievements focused on our beloved city, Iasi. Feel free to join this group to earn points by helping others. Welcome!

Achievements

Activity

Members

Search Achievement

☐ City

☐ Nature

☐ Other

☐ People

☐ display won achievements

Adrian Duliba

Citizen - 1000 points

Make a fellow citizen happy!

Achievement - People - 20 points

Opened: 04:39:15 - 22/06/2017

Today, I made this guy happy, by helping him with some food.

This achievement is a piece of cake. Just make someone happy and get points.

Likes: 1

Reports: 0

DISLIKE

REPORT

Find citizens

Find communities

Create community

Contribute to GoodCitizen

GOOD CITIZEN


Logout

Followed

Won

Pending

Achievements



Title *

Bucharest. Y&F

Description

This group is destined to the people of Bucharest. Achievements in this community are for anybody who's feeling young and free !

SAVE

CANCEL

GOOD CITIZEN

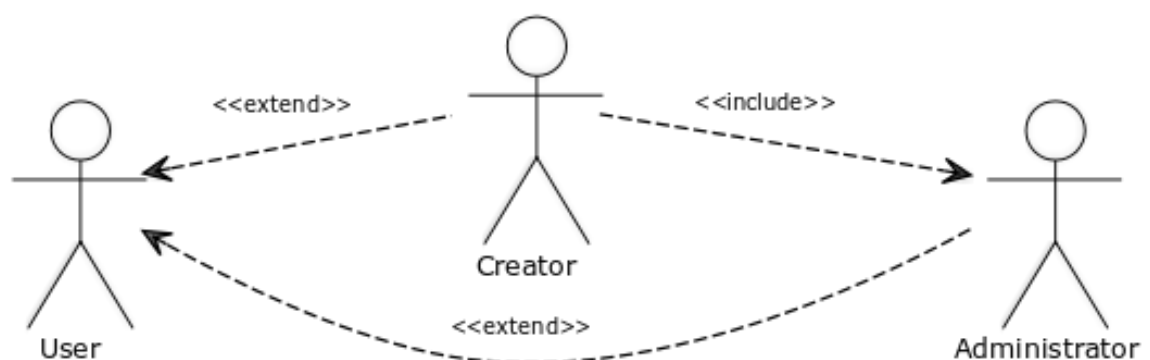
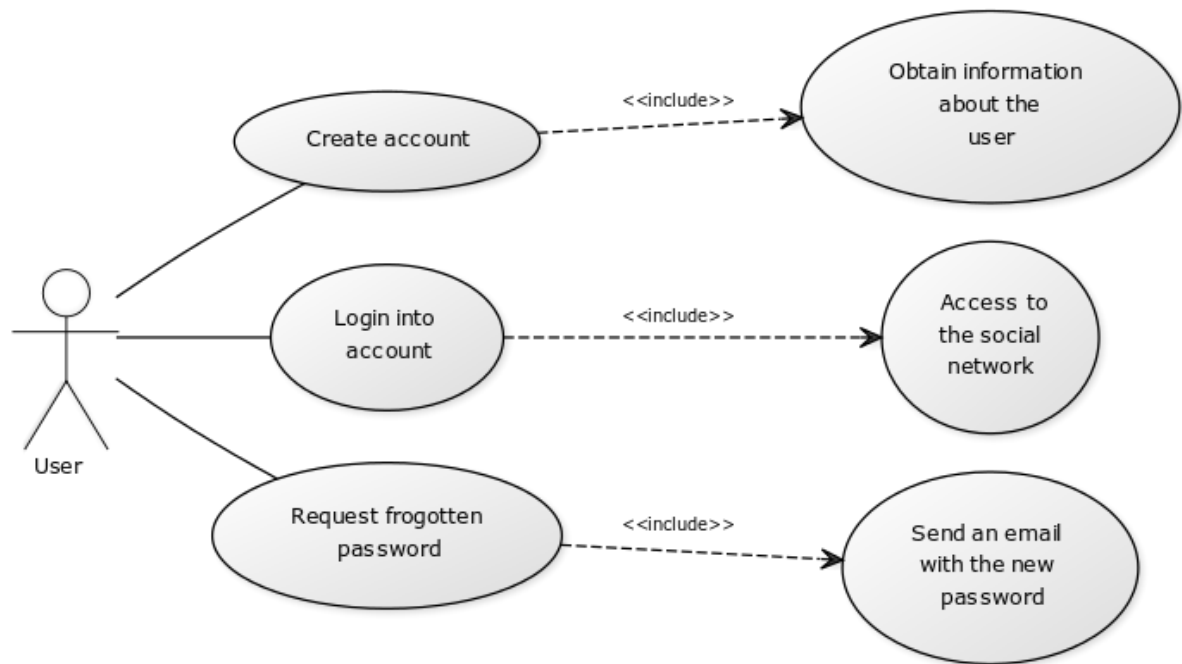
We need your feedback!

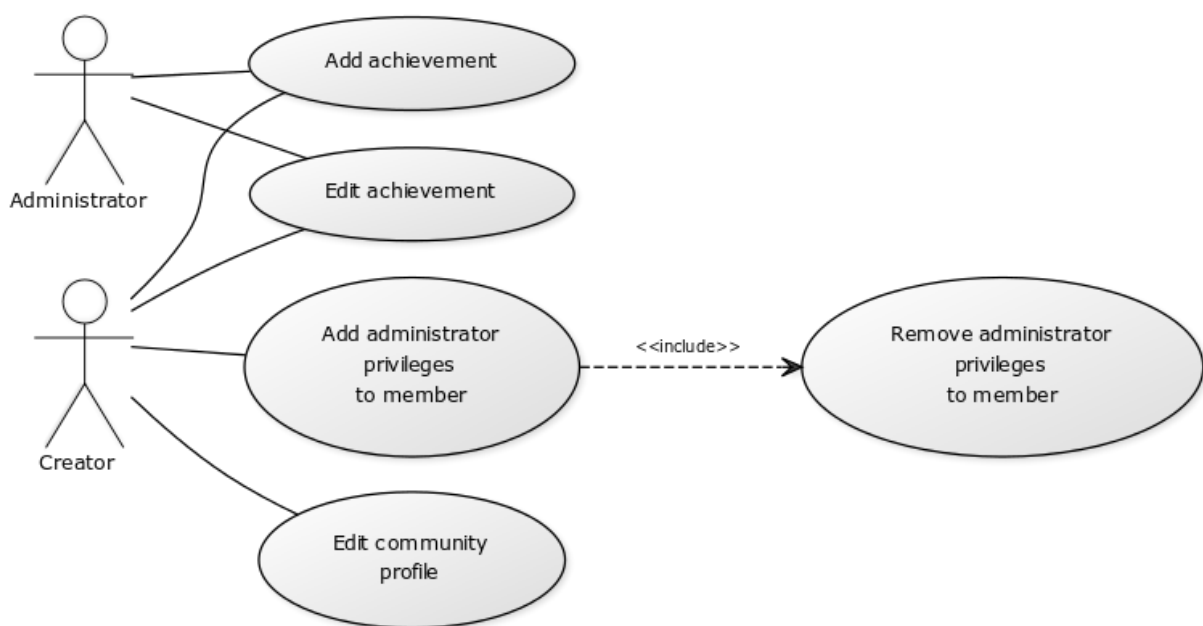
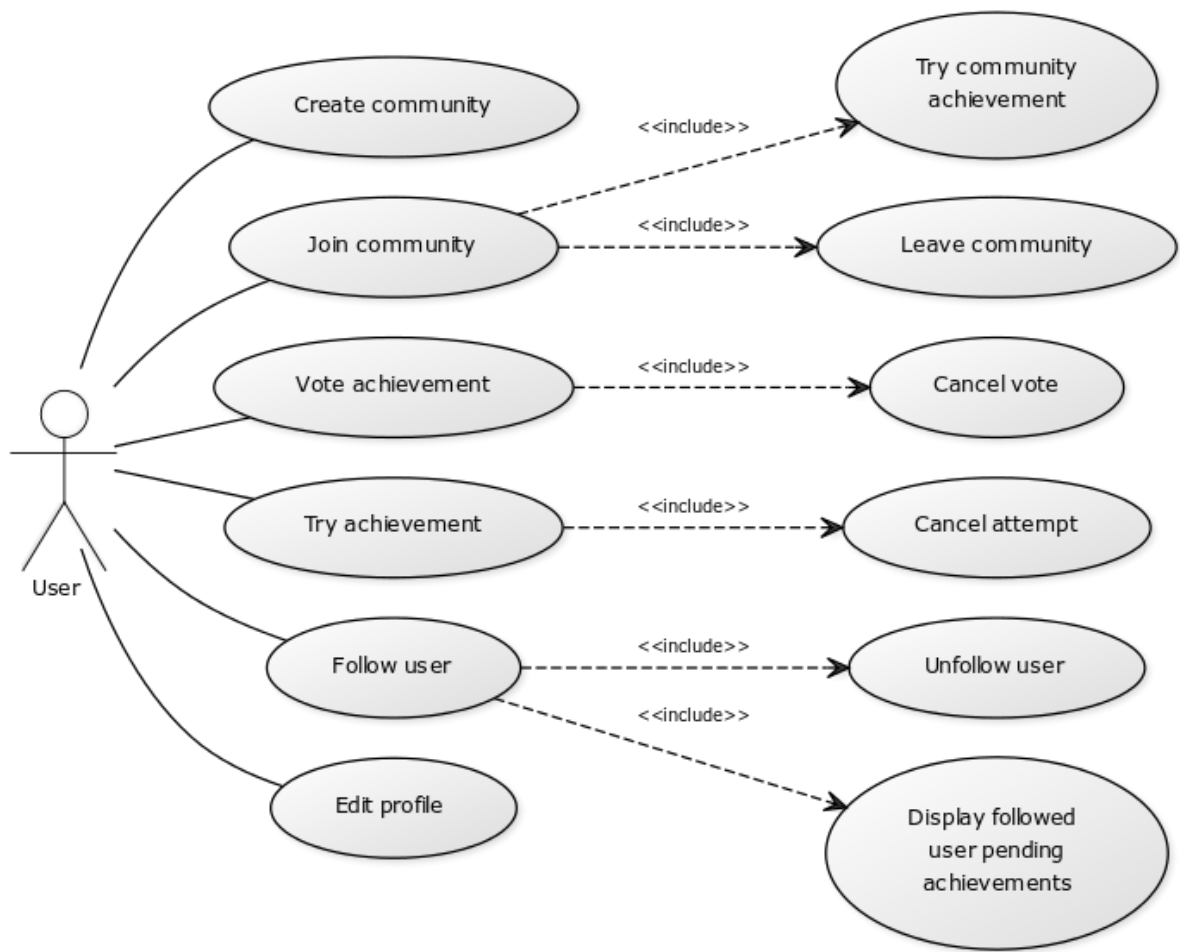
Please let us know your opinion about GoodCitizen. All suggestions are helpful.

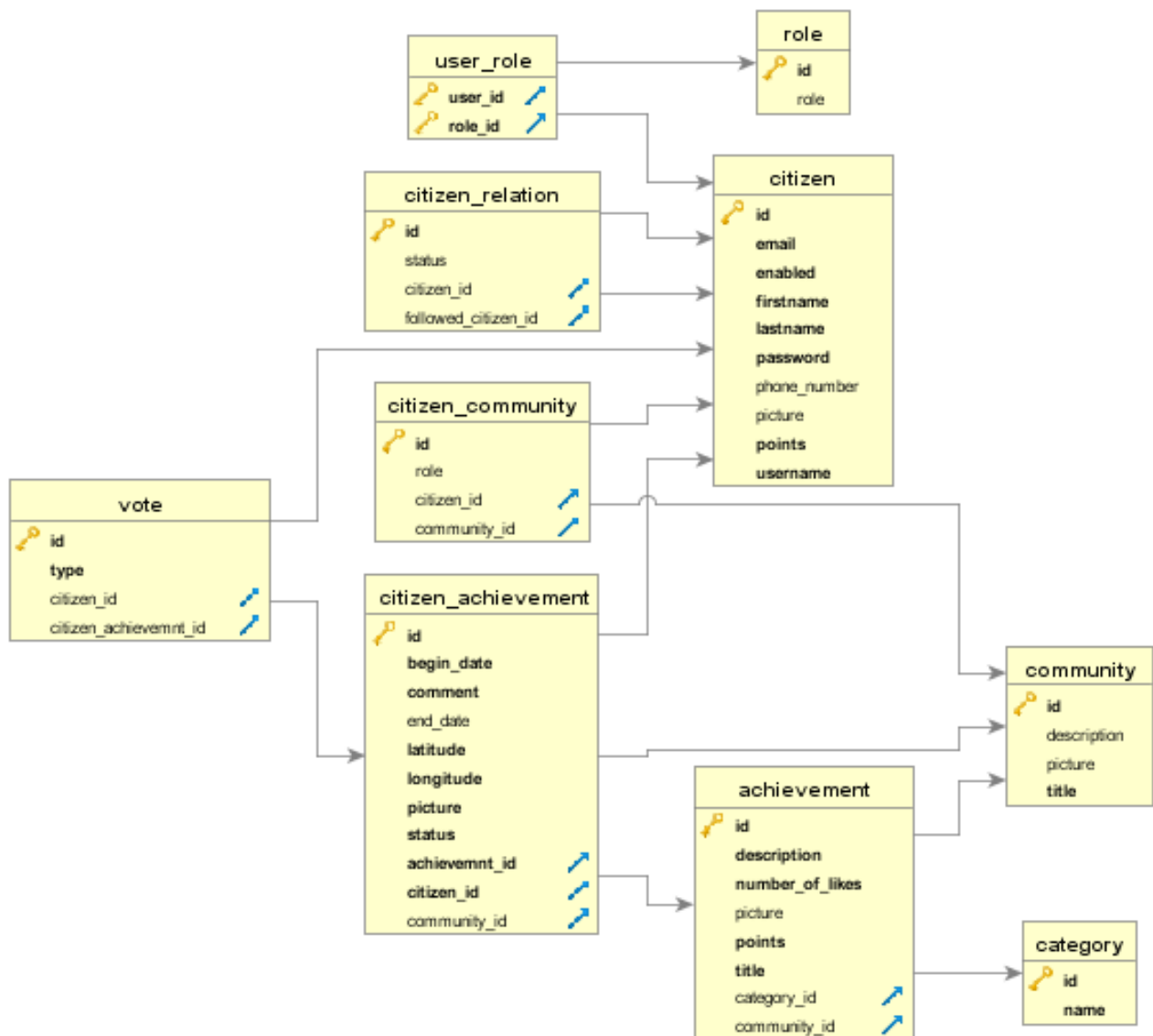
Title *

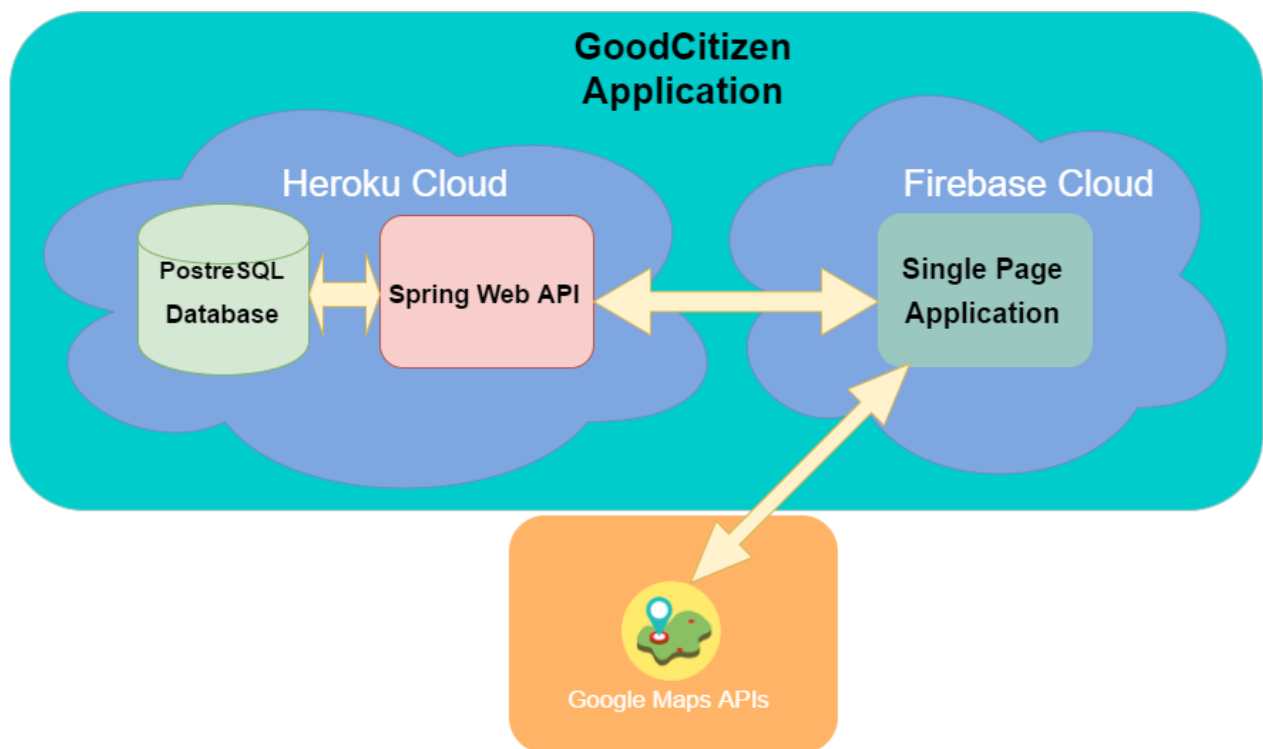
Feedback *

SEND FEEDBACK









```
@Entity
public class Achievement extends Base {

    @Column(unique = false, nullable = false)
    @Size(min = AchievementConstraints.titleMin, max = AchievementConstraints.
        titleMax)
```

```

private String title;

@Column(unique = false, nullable = false)
@Size(min = AchievementConstraints.descriptionMin, max =
    AchievementConstraints.descriptionMax)
private String description;

private byte[] picture;

@ManyToOne
@JoinColumn(name = "COMMUNITY_ID")
private Community community;

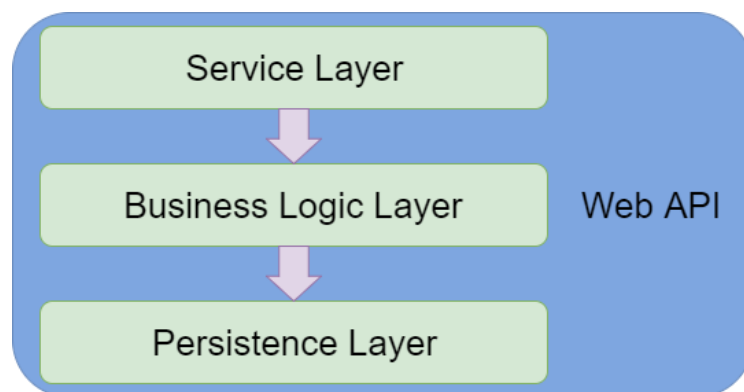
@ManyToOne
@JoinColumn(name = "CATEGORY_ID")
private Category category;

@OneToMany(mappedBy = "achievement")
private Set<CitizenAchievement> citizenAchievements;

@Column(unique = false, nullable = false)
@Min(AchievementConstraints.numberOfLikesMin)
@Max(AchievementConstraints.numberOfLikesMax)
private int numberOfLikes;

//... + getters and setters
}

```



```

public interface ICommunityRepository extends CrudRepository<Community, UUID> {

    @Query("SELECT c FROM Community c "
        + " WHERE "
        + "(LOWER(c.title) like CONCAT('%',:title,'%') or LOWER(c.description) "
        + "like CONCAT('%',:description,'%')) "
        + "order by c.title ")

```

```

Page<Community> findByCriteria(
    @Param("title") String title,
    @Param("description") String description,
    Pageable pageable);

@Query("SELECT c FROM Community c order by c.title asc")
Page<Community> findAllPageable(Pageable pageable);
}

```

```

@Transactional
public abstract class BaseService {

}

public interface ICommunityService {
    Page<CommunityThumbnailModel> findByCriteria(String term, int page, int size);

    //...
}

@Service
public class CommunityService extends BaseService implements ICommunityService {

    private final ICommunityRepository communityRepository;

    private final CommunityMapper communityMapper;

    private final ICitizenService citizenService;

    private final ICitizenCommunityRepository citizenCommunityRepository;

    public CommunityService(
        ICommunityRepository communityRepository,
        IAuthenticationFacade authenticationFacade,
        CommunityMapper communityMapper,
        ICitizenService citizenService,
        ICitizenCommunityRepository citizenCommunityRepository) {
        this.communityRepository = communityRepository;
        this.communityMapper = communityMapper;
        this.citizenService = citizenService;
        this.citizenCommunityRepository = citizenCommunityRepository;
    }

    @Override
    public Page<CommunityThumbnailModel> findByCriteria(String term, int page, int
        size) {
        if(!term.isEmpty()){
            term = term.toLowerCase();
            return communityRepository.findByCriteria(term, term,new PageRequest(page,
                size))
                .map(communityMapper::toCommunityThumbnail);
        }else{
            return communityRepository.findAllPageable(new PageRequest(page, size))
                .map(communityMapper::toCommunityThumbnail);
        }
    }
}

```

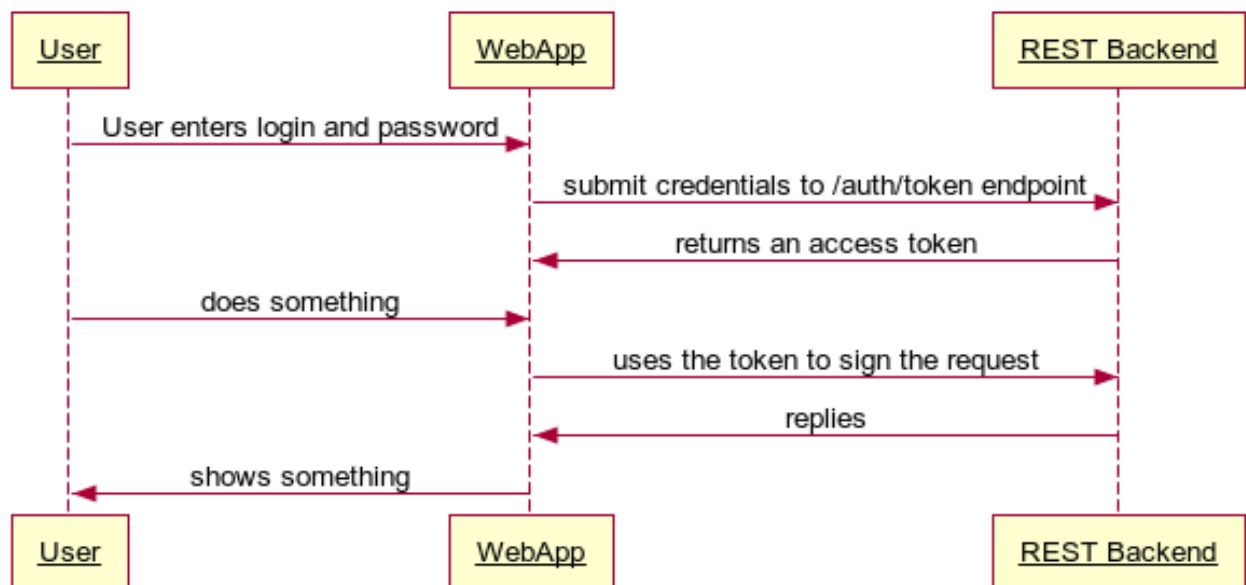


```
//...
}
```

```
@Mapper(componentModel = "spring")
public interface AchievementMapper {

    @Mappings({
        @Mapping(source = "achievement.category.name", target="category"),
        @Mapping(source = "achievement.community.id", target="communityId"))
        AchievementThumbnailModel toAchievementModel(Achievement achievement);

    @Mappings({
        @Mapping(target = "achievement.category.name", source="category"),
        @Mapping(target = "achievement.community.id", source="communityId"))
        Achievement toAchievement(AchievementThumbnailModel achievement);
}
```



```
@RestController
@RequestMapping(value = "/email", produces = { "application/json" })
public class EmailController extends BaseController {

    private final IResetPasswordService resetPasswordService;

    private final IFeedBackService feedbackService;

    public EmailController(
        IResetPasswordService resetPasswordService,
```

```

        IFeedBackService feedbackService) {
    this.resetPasswordService = resetPasswordService;
    this.feedbackService = feedbackService;
}

@PatchMapping(value = "/reset-password")
public ResponseEntity<?> resetPassword(
    @Valid @RequestBody @Email String email, Errors errors){

    ResponseEntity<?> response = this.buildErrorMessage(errors);
    if(response == null){
        return ResponseEntity
            .status(HttpStatus.OK)
            .body(resetPasswordService.resetPassword(email));
    }

    return response;
}

@PostMapping(value = "/feedback")
public void sendFeedBack(@RequestBody FeedbackModel feedbackModel){
    this.feedbackService.sendFeedBack(feedbackModel);
}
}

```

```

@NgModule({
  providers: [

    AuthService,
    AnonymousGuard,
    AuthenticatedGuard,
    AchievementService,
    CategoryService,
    CitizenService,
    CitizenAchievementService,
    CommunityService,
    FeedbackService],

  declarations: [
    AppComponent,
    NavigationComponent,
    PageHeaderComponent,
    AlertDialogComponent,
    ConfirmDialogComponent,
    //...more components

```

```

],

imports: [
  BrowserModule,
  BrowserAnimationsModule,
  FormsModule,
  ReactiveFormsModule,
  ChartsModule,

  HttpClientModule,
  routing,
  NgbModule.forRoot(),
  MaterialModule.forRoot(),
  AgmCoreModule.forRoot({
    apiKey: 'AIzaSyBZDeaviSbBrrg9gdLQeZYbsnhD15RvMZQ',
    libraries: ["places"]
  })
],
entryComponents: [
  AlertDialogComponent,
  ConfirmDialogComponent
],

bootstrap: [AppComponent]
})
export class AppModule {
}

```

```

<div class="card-container">
  <div class="title-ach">
    <b>{{citizenAchievement.achievementTitle}}</b>
  </div>
  <md-card>
    <md-card-content>
      <div class="image-container">
        <img [src]="!citizenAchievement.achievementPicture ?
          defaultAchievementPicture :
          'data:image/png;base64,' + citizenAchievement.
achievementPicture">
      </div>
      <div class="image-container">
        <img [src]=" 'data:image/png;base64,'+ citizenAchievement.
picture">
      </div>
    </md-card-content>
  </md-card>
</div>

```

```

#citizenPage{
  padding-bottom: 40px;
  .citizen-filter-container{
    flex-wrap: nowrap wrap wrap-reverse;
    justify-content: space-between;
    padding-left: 20px;
    padding-right: 20px;
  }
}

```

```
    .mat-input-container{  
      padding:10px;  
      input{  
        width: 240px;  
      }  
    }  
  }  
  //...  
}  
}
```

https://goodcitizen-ap

+

No Environment

POST

https://goodcitizen-api.herokuapp.com/oauth/token?
grant_type=password&username=Dan&password=lgSwcchhIN

Params

Send

Save

Authorization

Headers (2)

Body

Pre-request Script

Tests

Code

	Key	Value	Description	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	Authorization	Basic Z29vZGNpdGl6ZW46Z29vZGNpdGl6ZW...				
<input checked="" type="checkbox"/>	Accept	application/json				
	New key	Value	Description			

Body

Cookies

Headers (16)

Tests

Status: 200 OK

Time: 176 ms

Pretty

Raw

Preview

JSON

1

{

2

"access_token": "319dd672-2295-49c4-acee-665110bc770b",

3

"token_type": "bearer",

4

"refresh_token": "1f8be240-31c5-48af-89f9-f066c5ca237e",

5

"expires_in": 29486,

6

"scope": "USER"

7

}

→

→

→

→

→

→

→


```

@MappedSuperclass
public abstract class Base {
    @Id
    private UUID id;

    public Base() {
        id = java.util.UUID.randomUUID();
    }
    public UUID getId() {
        return id;
    }
    public void setId(UUID id) {
        this.id = id;
    }
}

```

```

@Entity
@Table(name = "VOTE", uniqueConstraints = @UniqueConstraint(columnNames = {
"CITIZEN_ID", "CITIZEN_ACHIEVEMNT_ID", "TYPE"}))
public class Vote extends Base {
    @NotNull
    private String type;

    @ManyToOne
    @JoinColumn(name = "CITIZEN_ACHIEVEMNT_ID", nullable = true)
    private CitizenAchievement citizenAchievement;

    @ManyToOne
    @JoinColumn(name = "CITIZEN_ID", nullable= true)
    private Citizen citizen;

    //...+ setters and getters
}

```

```

@Entity

```

```

@Table(name="CITIZEN_ACHIEVEMENT")
public class CitizenAchievement extends Base {

    @ManyToOne
    @JoinColumn(name = "CITIZEN_ID")
    @NotNull
    private Citizen citizen;

    @ManyToOne
    @JoinColumn(name = "ACHIEVEMNT_ID")
    @NotNull
    private Achievement achievement;

    @ManyToOne
    @JoinColumn(name = "COMMUNITY_ID")
    private Community community;

    @OneToMany(mappedBy="citizenAchievement")
    private Set<Vote> votes;

    @NotNull
    private Date beginDate;

    private Date endDate;

    @Column(unique = false, nullable = false)
    @Size(min = CitizenAchievementConstraints.commentMin, max =
CitizenAchievementConstraints.commentMax)
    private String comment;

    @NotNull
    private double longitude ;

    @NotNull
    private double latitude;

    @NotNull
    private byte[] picture;

    @NotNull
    private String status;

    //...+ setters and getters
}

```

```

@Entity
@Table(name = "CITIZEN_COMMUNITY", uniqueConstraints = @UniqueConstraint(
columnNames = { "CITIZEN_ID",
                "COMMUNITY_ID" }))
public class CitizenCommunity extends Base {

    @ManyToOne
    @JoinColumn(name = "CITIZEN_ID")
    private Citizen citizen;

    @ManyToOne
    @JoinColumn(name = "COMMUNITY_ID")
    private Community community;
}

```

```

        private String role;

        //...+ setters and getters
    }

```

```

@Entity
@Table(name = "CITIZEN_RELATION", uniqueConstraints = @UniqueConstraint(
columnNames = { "CITIZEN_ID",
                "FOLLOWED_CITIZEN_ID" }))
public class CitizenRelation extends Base {

    @ManyToOne
    @JoinColumn(name = "CITIZEN_ID")
    private Citizen citizen;

    @ManyToOne
    @JoinColumn(name = "FOLLOWED_CITIZEN_ID")
    private Citizen followedCitizen;

    private String status;

    //...+ setters and getters
}

```

```

public interface CitizenConstraints {
    // username
    int usernameMin = 2;
    int usernameMax = 15;

    // password
    int passwordMin = 8;
    int passwordMax = 50;

    //firstname
    int firstnameMin = 2;
    int firstnameMax = 15;

    //lastname
    int lastnameMin = 2;
    int lastnameMax = 15;
}

```

```

public interface AchievementConstraints {

    int titleMax = 40;
    int titleMin = 3;
}

```

```

        int pointsMax = 1000;
        int pointsMin = 1;

        int descriptionMin = 0;
        int descriptionMax = 255;

        int numberOfLikesMin = 1;
        int numberOfLikesMax = 1000;
    }

```

```

public interface IAchievementRepository extends CrudRepository<Achievement, UUID> {
    Optional<Achievement> findByTitle(String title);

    Stream<Achievement> findByDescriptionLike(String description);

    @Query("SELECT a FROM Achievement a "
        + "inner join a.category c"
        + " WHERE "
        + " (LOWER(a.title) like CONCAT('%',:title,'%') or LOWER(a.description) "
        + " like CONCAT('%',:description,'%')) "
        + " and c.name in :categories "
        + " and a.community.id is null "
        + " order by a.title ")
    Page<Achievement> findByCriteria(
        @Param("title") String title,
        @Param("description") String description,
        @Param("categories") Set<String> categories,
        Pageable pageable);

    @Query("SELECT a FROM Achievement a "
        + "inner join a.category c"
        + " WHERE "
        + " (LOWER(a.title) like CONCAT('%',:title,'%') or LOWER(a.description) "
        + " like CONCAT('%',:description,'%')) "
        + " and c.name in :categories "
        + " and a.community.id = :communityId "
        + " order by a.title ")
    Page<Achievement> findByCriteriaWithCommunity(
        @Param("title") String title,
        @Param("description") String description,
        @Param("categories") Set<String> categories,
        @Param("communityId") UUID communityId,
        Pageable pageable);

    @Query("SELECT a FROM Achievement a "
        + " inner join a.category c "
        + " WHERE "
        + " c.name in :categories "
        + " and a.community.id is null "
        + " order by a.title ")
    Page<Achievement> findByCategories(

```

```

        @Param("categories") Set<String> categories,
        Pageable pageable);

@Query("SELECT a FROM Achievement a "
+ " inner join a.category c "
+ " WHERE "
+ " c.name in :categories "
+ " and a.community.id = :communityId "
+ " order by a.title ")
Page<Achievement> findByCategoriesWithCommunity(
    @Param("categories") Set<String> categories,
    @Param("communityId") UUID communityId,
    Pageable pageable);
}

```

```

public interface ICitizenAchievementRepository extends CrudRepository<
    CitizenAchievement, UUID> {

    int countByStatusAndCitizen(String status, Citizen citizen);

    boolean existsByAchievementAndCitizenAndStatus(Achievement achievement, Citizen
        citizen, String status);

    @Query("SELECT ca FROM CitizenAchievement ca "
+ " WHERE "
+ " ca.citizen.id in :friendsIds "
+ " and ca.status = :status")
    Page<CitizenAchievement> getFriendsAchievements(
        @Param("friendsIds") Set<UUID> friendsIds,
        @Param("status") String status,
        Pageable pageable);

    @Query("SELECT ca FROM CitizenAchievement ca "
+ " inner join ca.achievement a "
+ " inner join a.category cat "
+ " WHERE "
+ " (LOWER(a.title) like CONCAT('%',:title,'%') or LOWER(a.description)
like CONCAT('%',:description,'%')) "
+ " and cat.name in :categories "
+ " and ca.community.id = :communityId "
+ " and ca.status = :status")
    Page<CitizenAchievement> findByCriteria(
        @Param("title") String title,
        @Param("description") String description,
        @Param("categories") Set<String> categories,
        @Param("communityId") UUID communityId,
        @Param("status") String status,
        Pageable pageable);

    @Query("SELECT ca FROM CitizenAchievement ca "
+ " WHERE "
+ " ca.achievement.category.name in :categories "
+ " and ca.community.id = :communityId "
+ " and ca.status = :status")
    Page<CitizenAchievement> findByCategories(
        @Param("categories") Set<String> categories,
        @Param("communityId") UUID communityId,

```

```

        @Param("status") String status,
        Pageable pageable);

@Query("SELECT ca FROM CitizenAchievement ca "
+ " WHERE "
+ " ca.citizen.id = :citizenId "
+ " and ca.status = :status ")
Page<CitizenAchievement> getCurrentCitizenAchievements(
    @Param("citizenId") UUID citizenId,
    @Param("status") String status,
    Pageable pageable);

@Query("SELECT ca FROM CitizenAchievement ca "
+ " WHERE "
+ " (6371*2*atan2("
+ "     sqrt( "
+ "         (sin(radians(ca.latitude - :latitude)/2 )) "
+ "         *(sin(radians(ca.latitude - :latitude)/2 )) "
+ "         +(sin(radians(ca.longitude - :longitude)/2)) "
+ "         *(sin(radians(ca.longitude - :longitude)/2)) "
+ "         *(cos(radians(ca.latitude))) "
+ "         *(cos(radians( :latitude ))) "
+ "     ), "
+ "     1-sqrt("
+ "         (sin(radians(ca.latitude - :latitude)/2 )) "
+ "         *(sin(radians(ca.latitude - :latitude)/2 )) "
+ "         +(sin(radians(ca.longitude - :longitude)/2)) "
+ "         *(sin(radians(ca.longitude - :longitude)/2)) "
+ "         *(cos(radians(ca.latitude))) "
+ "         *(cos(radians( :latitude ))) "
+ "     ) "
+ " )) < :distance"
+ " and ca.citizen.id != :citizenId"
+ " and ca.status = :status")
Page<CitizenAchievement> findNearBy(
    @Param("latitude") double latitude,
    @Param("longitude") double longitude,
    @Param("distance") int distance,
    @Param("citizenId") UUID citizenId,
    @Param("status") String status,
    Pageable pageable);

@Query("SELECT ca FROM CitizenAchievement ca "
+ " WHERE "
+ " ca.citizen.id = :citizenId "
+ " and ca.status = :status "
+ " and ca.endDate > current_date - :numberOfDays")
Stream<CitizenAchievement> getCitizenAchievementFromLastDays(
    @Param("citizenId") UUID citizenId,
    @Param("status") String status,
    @Param("numberOfDays") int numberOfDays);

Boolean existsByIdAndStatus(
    @Param("id") UUID id,
    @Param("status") String status);
}

```

```

public interface IAchievementService {

    Set<AchievementThumbnailModel> getAll();

    Page<AchievementThumbnailModel> findByCriteria(String criteria, Set<String>
        categories, String communityId, int page, int size);

    Optional<AchievementThumbnailModel> findById(String id);

    AchievementThumbnailModel save(AchievementThumbnailModel achievementModel);
}

@Service
public class AchievementService extends BaseService implements
    IAchievementService {

    private final IAchievementRepository achievementRepository;

    private final AchievementMapper achievementMapper;

    private final ICategoryRepository categoryRepository;

    private final ICitizenService citizenService;

    private final ICitizenCommunityService citizenCommunityService;

    public AchievementService(
        IAchievementRepository achievementRepository,
        ICategoryRepository categoryRepository,
        AchievementMapper achievementMapper,
        ICitizenService citizenService,
        ICitizenCommunityService citizenCommunityService) {
        this.achievementRepository = achievementRepository;
        this.achievementMapper = achievementMapper;
        this.categoryRepository = categoryRepository;
        this.citizenService = citizenService;
        this.citizenCommunityService = citizenCommunityService;
    }

    public Set<AchievementThumbnailModel> getAll() {
        return StreamSupport.stream((Splitter<Achievement>)
            achievementRepository.findAll()
                .splitter(), Boolean.FALSE)
            .map(achievementMapper::toAchievementModel)
            .collect(toSet());
    }

    @Override
    public Page<AchievementThumbnailModel> findByCriteria(
        String criteria, Set<String> categories, String communityId, int page, int
        size) {

        if(categories==null || categories.isEmpty()){
            categories = StreamSupport.stream(
                (Splitter<Category>)categoryRepository.findAll().splitter(),

```

```

Boolean.FALSE)
    .map(Category::getName)
    .collect(toSet());
}

if(communityId != null){

    if(criteria == null || criteria.isEmpty()){
        return achievementRepository
            .findByCategoriesWithCommunity(
                categories,UUID.fromString(communityId), new
PageRequest(page, size))
            .map(achievementMapper::toAchievementModel);
    }
    return achievementRepository
        .findByCriteriaWithCommunity(
            criteria.toLowerCase(),criteria.toLowerCase(),
            categories,UUID.fromString(communityId),new PageRequest(
page, size))
            .map(achievementMapper::toAchievementModel);
    }else{
        if(criteria == null || criteria.isEmpty()){
            return achievementRepository
                .findByCategories(categories, new PageRequest(page, size))
                .map(achievementMapper::toAchievementModel);
        }
        return achievementRepository
            .findByCriteria(
                criteria.toLowerCase(),criteria.toLowerCase(),categories
,new PageRequest(page, size))
                .map(achievementMapper::toAchievementModel);
    }
}

@Override
public Optional<AchievementThumbnailModel> findById(String id) {
    return Optional.of(achievementMapper.toAchievementModel(
        achievementRepository.findOne(UUID.fromString(id))));
}

@Override
public AchievementThumbnailModel save(AchievementThumbnailModel
achievementModel) {

    String currentCitizenId = this.citizenService.getLoggedUserId().toString();
    Boolean isAdmin = this.citizenCommunityService.checkIfRole(
        achievementModel.getCommunityId().toString(), currentCitizenId,
GlobalConstants.ADMIN);
    Boolean isCreator = this.citizenCommunityService.checkIfRole(
        achievementModel.getCommunityId().toString(), currentCitizenId,
GlobalConstants.CREATOR);
    if( isAdmin || isCreator){
        if(achievementModel.getId() == null){
            achievementModel.setId(UUID.randomUUID());
        }
        String categoryName = achievementModel.getCategory();
        if(achievementModel.getCategory() == null){
            categoryName = GlobalConstants.CATEGORY_DEFAULT;
        }
        if(achievementModel.getPoints() <= GoodCitizenGameConstraints.points
|| achievementModel.getPoints() >= GoodCitizenGameConstraints.

```



```

maxPoints){
    achievementModel.setPoints(GoodCitizenGameConstraints.points);
}
if(achievementModel.getNumberOfLikes() <= GoodCitizenGameConstraints.
numberOfLikes
    || achievementModel.getNumberOfLikes() >= GoodCitizenGameConstraints
.maxLikes){
    achievementModel.setNumberOfLikes(GoodCitizenGameConstraints.
numberOfLikes);
}

Optional<Category> category = this.categoryRepository.findByName(
categoryName);
Achievement achievment = achievementMapper.toAchievement(achievementModel)
;
    achievment.setCategory(category.get());

    return this.achievementMapper.toAchievementModel(
        this.achievementRepository.save(achievment));
}
else{
    throw new UnauthorizedUserException("You are not authorized to add/change
this achievment!");
}
}
}
}

```

```

public interface ICitizenRelationService {

    boolean followUnfollow(CitizenRelationFollowModel citizenRelationFollowModel);

    Set<CitizenThumbnailModel> getFollowers(String id);

    Boolean checkIfExists(String citizenId,String followedId);

    public Set<CitizenThumbnailModel> getFollowed(String id);
}

@Service
public class CitizenRelationService extends BaseService implements
    ICitizenRelationService {

    private final ICitizenRelationRepository citizenRelationRepository;

    private final ICitizenService citizenService;

    private final CitizenMapper citizenMapper;

    private final CitizenRelationMapper citizenRelationMapper;
    public CitizenRelationService(
        ICitizenRelationRepository citizenRelationRepository,
        ICitizenService citizenService,
        CitizenRelationMapper citizenRelationMapper,
        CitizenMapper citizenMapper){
        this.citizenRelationRepository = citizenRelationRepository;
        this.citizenService = citizenService;
        this.citizenRelationMapper = citizenRelationMapper;
    }
}

```

```

        this.citizenMapper = citizenMapper;
    }

    @Override
    public boolean followUnfollow(CitizenRelationFollowModel
        citizenRelationFollowModel) {
        Optional<CitizenRelation> citizenRelation =
            citizenRelationRepository.getByCitizenAndFollowed(
                citizenService.getLoggedUserId(),
                citizenRelationFollowModel.getFollowedId());
        if(citizenRelation.isPresent()){
            citizenRelationRepository.delete(citizenRelation.get().getId());
            return false;
        }else{
            citizenRelationFollowModel.setId(UUID.randomUUID());
            citizenRelationRepository
                .save(citizenRelationMapper
                    .fromCitizenRelationFollow(citizenRelationFollowModel));
            return true;
        }
    }

    public Set<CitizenThumbnailModel> getFollowers(String id){
        return citizenRelationRepository
            .getFollowers(UUID.fromString(id))
            .map(CitizenRelation::getCitizen)
            .map(citizenMapper::toCitizenThumbnail)
            .collect(Collectors.toSet());
    }

    public Set<CitizenThumbnailModel> getFollowed(String id){
        return citizenRelationRepository
            .getFollowed(UUID.fromString(id))
            .map(CitizenRelation::getFollowedCitizen)
            .map(citizenMapper::toCitizenThumbnail)
            .collect(Collectors.toSet());
    }

    public Boolean checkIfExists(String citizenId,String followedId){
        Optional<CitizenRelation> citizenRelation =
            citizenRelationRepository
                .getByCitizenAndFollowed(UUID.fromString(citizenId)
                    ,UUID.fromString(followedId));
        if(citizenRelation.isPresent()){
            return Boolean.TRUE;
        }
        return Boolean.FALSE;
    }
}

```

```

@Generated(
    value = "org.mapstruct.ap.MappingProcessor",

```

```

        date = "2017-06-20T22:00:19+0300",
        comments = "version: 1.2.0.Beta2, compiler: javac, environment: Java 1.8.0
_101 (Oracle Corporation)"
    )
@Component
public class AchievementMapperImpl implements AchievementMapper {

    @Override
    public AchievementThumbnailModel toAchievementModel(Achievement achievement)
    {
        if ( achievement == null ) {
            return null;
        }

        AchievementThumbnailModel achievementThumbnailModel = new
AchievementThumbnailModel();

        String name = achievementCategoryName( achievement );
        if ( name != null ) {
            achievementThumbnailModel.setCategory( name );
        }
        UUID id = achievementCommunityId( achievement );
        if ( id != null ) {
            achievementThumbnailModel.setCommunityId( id );
        }
        achievementThumbnailModel.setId( achievement.getId() );
        byte[] picture = achievement.getPicture();
        if ( picture != null ) {
            achievementThumbnailModel.setPicture( Arrays.copyOf( picture,
picture.length ) );
        }
        achievementThumbnailModel.setTitle( achievement.getTitle() );
        achievementThumbnailModel.setDescription( achievement.getDescription() );
;
        achievementThumbnailModel.setPoints( achievement.getPoints() );
        achievementThumbnailModel.setNumberOfLikes( achievement.getNumberOfLikes
() );
        return achievementThumbnailModel;
    }

    @Override
    public Achievement toAchievement(AchievementThumbnailModel achievement) {
        if ( achievement == null ) {
            return null;
        }
        Achievement achievement1 = new Achievement();
        achievement1.setCategory( achievementThumbnailModelToCategory(
achievement ) );
        achievement1.setCommunity( achievementThumbnailModelToCommunity(
achievement ) );
        achievement1.setId( achievement.getId() );
        achievement1.setNumberOfLikes( achievement.getNumberOfLikes() );
        achievement1.setTitle( achievement.getTitle() );
        achievement1.setDescription( achievement.getDescription() );
        byte[] picture = achievement.getPicture();
        if ( picture != null ) {
            achievement1.setPicture( Arrays.copyOf( picture, picture.length ) );
        }
        achievement1.setPoints( achievement.getPoints() );

        return achievement1;
    }

```

```
}
```

```
private String achievementCategoryName(Achievement achievement) {  
    if ( achievement == null ) {  
        return null;  
    }  
    Category category = achievement.getCategory();  
    if ( category == null ) {  
        return null;  
    }  
    String name = category.getName();  
    if ( name == null ) {  
        return null;  
    }  
    return name;  
}
```

```
private UUID achievementCommunityId(Achievement achievement) {  
    if ( achievement == null ) {  
        return null;  
    }  
    Community community = achievement.getCommunity();  
    if ( community == null ) {  
        return null;  
    }  
    UUID id = community.getId();  
    if ( id == null ) {  
        return null;  
    }  
    return id;  
}
```

```
protected Category achievementThumbnailModelToCategory(  
    AchievementThumbnailModel achievementThumbnailModel) {  
    if ( achievementThumbnailModel == null ) {  
        return null;  
    }  
  
    Category category = new Category();  
  
    category.setName( achievementThumbnailModel.getCategory() );  
  
    return category;  
}
```

```
protected Community achievementThumbnailModelToCommunity(  
    AchievementThumbnailModel achievementThumbnailModel) {  
    if ( achievementThumbnailModel == null ) {  
        return null;  
    }  
  
    Community community = new Community();  
  
    community.setId( achievementThumbnailModel.getCommunityId() );  
  
    return community;  
}
```

```
}
```

```

public abstract class BaseController {

    protected static Message responseMessage = new Message();

    protected ResponseEntity<?> buildErrorMessage(Errors errors){
        if (errors.hasErrors()) {
            return ResponseEntity
                .badRequest()
                .body(responseMessage
                    .setMessage(
                        errors.getAllErrors()
                            .stream()
                            .map(ObjectError::getDefaultMessage)
                            .collect(joining(" ")))));
        }
        return null;
    }
}

@RestController
@RequestMapping(value = "/citizen-relation", produces = { "application/json" })
public class CitizenRelationController extends BaseController {

    private final ICitizenRelationService citizenRelationService;

    public CitizenRelationController(ICitizenRelationService
        citizenRelationService) {
        this.citizenRelationService = citizenRelationService;
    }

    @PatchMapping
    public ResponseEntity<?> followUnfollow(
        @Valid @RequestBody CitizenRelationFollowModel
        citizenRelationFollowModel, Errors errors) {

        ResponseEntity<?> response = this.buildErrorMessage(errors);
        if(response == null){
            if(citizenRelationService.followUnfollow(citizenRelationFollowModel)){
                return ResponseEntity
                    .status(HttpStatus.CREATED)
                    .body(responseMessage.setMessage("Citizen is followed!"));
            }
            return ResponseEntity
                .status(HttpStatus.NO_CONTENT)
                .body(responseMessage.setMessage("Unfollowed citizen"));
        }
        return response;
    }

    @GetMapping(value = "followers/")
    public Set<CitizenThumbnailModel> getCitizenFollowers(
        @RequestParam(value="id", required = true) String id){
        return citizenRelationService.getFollowers(id);
    }

    @GetMapping(value = "followed/")
    public Set<CitizenThumbnailModel> getCitizenFollowed(
        @RequestParam(value="id", required = true) String id){

```

```

        return citizenRelationService.getFollowed(id);
    }

@GetMapping(value = "check/")
    public Boolean checkIfExists(
        @RequestParam(value="citizenId", required = true) String citizenId,
        @RequestParam(value="followedId", required = true) String followedId){
        return citizenRelationService.checkIfExists(citizenId, followedId);
    }
}

@RestController
@RequestMapping(value = "/vote", produces = { "application/json" })
public class VoteController extends BaseController {

    private final IVoteService voteService;

    private final IVoteValidator voteValidator;

    public VoteController(
        IVoteService voteService,
        IVoteValidator voteValidator) {
        this.voteService = voteService;
        this.voteValidator = voteValidator;
    }

    @PatchMapping
    public ResponseEntity<?> register(@Valid @RequestBody VoteModel voteModel,
        Errors errors) {

        voteValidator.validate(voteModel, errors);
        ResponseEntity<?> response = this.buildErrorMessage(errors);
        if(response == null){
            if(voteService.patchVote(voteModel)){
                return ResponseEntity
                    .status(HttpStatus.CREATED)
                    .body(responseMessage.setMessage("Vote changed!"));
            }
            return ResponseEntity
                .status(HttpStatus.NO_CONTENT)
                .body(responseMessage.setMessage("Vote deleted"));
        }

        return response;
    }
}

@GetMapping(value = "check/")
    public Boolean checkIfExists(
        @RequestParam(value="citizenId", required = true) String citizenId,
        @RequestParam(value="citizenAchievementId", required = true) String
        citizenAchievementId,
        @RequestParam(value="type", required = true) String type){
        VoteModel voteModel = new VoteModel();
        voteModel.setCitizenId(UUID.fromString(citizenId));
        voteModel.setCitizenAchievementId(UUID.fromString(citizenAchievementId));
        voteModel.setType(type);
        return voteService.checkIfVoteExists(voteModel);
    }
}

@GetMapping(value = "number-votes/")
    public int getNumberOfLikes(

```

```
        @RequestParam(value="citizenAchievementId", required = true) String
citizenAchievementId,
        @RequestParam(value="type", required = true) String type){
    VoteModel voteModel = new VoteModel();
    voteModel.setCitizenAchievementId(UUID.fromString(citizenAchievementId));
    voteModel.setType(type);
    return voteService.getNumberOfVotes(voteModel);
}
```

```
}
```

```

import { Headers, RequestOptions } from '@angular/http';
import { Observable } from "rxjs/Rx";
import { PageFilter } from "../models/index";

export class BaseService {
  protected serviceUrl: string;
  protected accessTokenUrl: string;
  protected headers: Headers;
  protected options: RequestOptions;

  constructor() {
    this.serviceUrl = "https://goodcitizen-api.herokuapp.com/";
    // this.serviceUrl = "http://localhost:8080/";
    this.accessTokenUrl = "?access_token=";
    this.headers = new Headers({ 'Content-Type': 'application/json' });
    this.options = new RequestOptions({ headers: this.headers });
  }

  public handleError(error): Observable<any> {
    console.log(error);
    return Observable.throw(error.json());
  }

  public search(pageFilter: PageFilter): Observable<any>{
    return null;
  }

  public buildQuery(object : any): string {
    let query: string = "";
    for (var prop in object) {
      if (object.hasOwnProperty(prop)) {
        if(object[prop]){
          if(object[prop] instanceof Array){
            if(object[prop].length > 0){
              query = query.concat('&' + prop + '=' + object[prop]
].join(','));
            }
          }else{
            query = query.concat('&' + prop + '=' + object[prop]);
          }
        }
      }
    }
  }
}

```



```

    }
    return query;
}
}

```

```

import { Injectable } from "@angular/core";
import { BaseService } from '../commons/base.service';
import { Http } from '@angular/http';
import { Observable, Subject } from 'rxjs/Rx';
import { AuthService } from '../authentication/index';
import {
    Profile,
    CitizenRelation,
    CitizenThumbnail,
    CitizenThumbnailPage } from '../models/index';
import { CitizenFilter } from '../filters/index';
@Injectable()
export class CitizenService extends BaseService {

    constructor(
        public http: Http,
        public authService: AuthService) {
        super();
    }

    public findById(id: string): Observable<Profile> {
        return this.http.get(
            this.serviceUrl
            + 'citizen/id/'
            + this.accessTokenUrl
            + this.authService.getAccessToken()
            + '&id=' + id)
            .map(response => response.json() as Profile)
            .catch(this.handleError);
    }

    public update(profile: Profile): Observable<number> {
        let body = JSON.stringify(profile);
        return this.http.patch(
            this.serviceUrl
            + 'citizen/update/'
            + this.accessTokenUrl
            + this.authService.getAccessToken()
            , body, this.options)
            .map(response => response.status as number);
    }

    public followUnfollow(citizenRelation: CitizenRelation): Observable<any> {
        let body = JSON.stringify(citizenRelation);
        return this.http.patch(
            this.serviceUrl
            + 'citizen-relation/'
            + this.accessTokenUrl
            + this.authService.getAccessToken()
            , body, this.options)
            .map(response => response.status as number)
            .catch(this.handleError);
    }
}

```

```

public getFollowers(id: string): Observable<CitizenThumbnail[]> {
    return this.http.get(
        this.serviceUrl
        + 'citizen-relation/followers/'
        + this.accessTokenUrl
        + this.authService.getAccessToken()
        + "&id=" + id)
        .map(citizens => citizens.json() as CitizenThumbnail[])
        .catch(this.handleError);
}

public getFollowed(id: string): Observable<CitizenThumbnail[]> {
    return this.http.get(
        this.serviceUrl
        + 'citizen-relation/followed/'
        + this.accessTokenUrl
        + this.authService.getAccessToken()
        + "&id=" + id)
        .map(citizens => citizens.json() as CitizenThumbnail[])
        .catch(this.handleError);
}

public getCitizenBasicInfo(id: string): Observable<CitizenThumbnail> {
    return this.http.get(
        this.serviceUrl
        + 'citizen/basic-info/'
        + this.accessTokenUrl
        + this.authService.getAccessToken()
        + "&id=" + id)
        .map(citizens => citizens.json() as CitizenThumbnail)
        .catch(this.handleError);
}

public getLoggedCitizenPicture(): Observable<string> {
    return this.http.get(
        this.serviceUrl
        + 'citizen/picture/'
        + this.accessTokenUrl
        + this.authService.getAccessToken())
        .map(response => response.json().picture as string)
        .catch(this.handleError);
}

public checkIfFollows(citizenRelation: CitizenRelation): Observable<boolean>
{
    return this.http.get(
        this.serviceUrl
        + 'citizen-relation/check/'
        + this.accessTokenUrl
        + this.authService.getAccessToken()
        + this.buildQuery(citizenRelation))
        .map(flag => flag.json() as boolean)
        .catch(this.handleError);
}

public search(citizenFilter: CitizenFilter): Observable<CitizenThumbnailPage
> {
    return this.http
        .get(
            this.serviceUrl

```

```

        + 'citizen/'
        + this.accessTokenUrl
        + this.authService.getAccessToken()
        + this.buildQuery(citizenFilter))
        .map(citizenPage => citizenPage.json() as CitizenThumbnailPage);
    }
}

```

```

import { Component, Input, OnInit } from '@angular/core';
import { Router } from '@angular/router';
import { CitizenThumbnail, CitizenRelation } from '../../../models/index';
import { CitizenService } from '../../../citizen.service';
import { AuthService } from '../../../authentication/auth.service';
import { CommunityService } from '../../../community/index';

@Component({
  selector: 'citizen-thumbnail',
  templateUrl: 'citizen-thumbnail.component.html',
  styleUrls: ['citizen-thumbnail.component.scss']
})
export class CitizenThumbnailComponent implements OnInit {

  @Input()
  public citizen: CitizenThumbnail;

  @Input()
  public currentCitizenId: string;

  @Input()
  public showMakeAdminButton: boolean;

  @Input()
  public communityId: string;

  public picture: string = '';
  public defaultCitizenPicture: string = '../../../assets/default-profile-pic.png';
  public followButton: string = '';
  public makeAdminButtonLabel: string = '';
  public isFollowed: boolean;
  public isAdmin: boolean;

  constructor(
    private router: Router,
    private authService: AuthService,
    private citizenService: CitizenService,
    private communityService: CommunityService) {

  }

  ngOnInit(): void {
    this.checkIfFollowed();
    this.checkIfAdmin();
  }

  public setMakeAdminButton(status: boolean) {

```

```

        this.isAdmin = status;
        if (!status) {
            this.makeAdminButtonLabel = "ADD ADMIN";
        } else {
            this.makeAdminButtonLabel = "REMOVE ADMIN";
        }
    }

    public checkIfAdmin(): void {
        if (this.showMakeAdminButton) {
            this.communityService.checkIfRole(
                this.communityId, this.citizen.id, "ADMIN").subscribe(response
=> {
                if (this.citizen.id !== this.currentCitizenId) {
                    this.setMakeAdminButton(response);
                }
            });
        }
    }

    public followUnfollow(): void {
        this.citizenService
            .followUnfollow(new CitizenRelation(this.currentCitizenId, this.
citizen.id))
            .subscribe(status => this.setFollowButtonStatus(status))
    }

    public setFollowButtonStatus(status: number): void {
        if (status == 201) {
            this.isFollowed = true;
        } else {
            this.isFollowed = false;
        }
        this.setFollowButtonFlag(this.isFollowed);
    }

    public checkIfFollowed(): void {
        this.citizenService
            .checkIfFollows(new CitizenRelation(this.currentCitizenId, this.
citizen.id))
            .subscribe(flag => {
                this.isFollowed = flag;
                this.setFollowButtonFlag(flag)
            });
    }

    public setFollowButtonFlag(flag: boolean): void {
        if (flag) {
            this.followButton = "FOLLOWING";
        } else {
            this.followButton = "FOLLOW";
        }
    }

    public goToCitizenProfile(): void {
        let link = ['/citizen/', this.citizen.id];
        this.router.navigate(link);
    }

    public addRemoveAdmin() {

```

```

        this.communityService
            .addRemoveAdmin(this.citizen.id, this.communityId)
            .subscribe(response => {
                this.setMakeAdminButton(response);
            })
    }
}

```

```

import { ModuleWithProviders } from '@angular/core'
import { Routes, RouterModule } from '@angular/router'

import {
    AuthComponent,
    AnonymousGuard,
    AuthenticatedGuard,
    RecoverPasswordComponent
} from './authentication/index';

import {
    AchievementSearchComponent,
    AchievementAddComponent
} from './achievement/index';

import {
    CitizenAchievementAddComponent,
    CitizenAchievementPendingComponent,
    CitizenAchievementFriendComponent,
    CitizenAchievementRadiusComponent,
    CitizenAchievementWonComponent
} from './citizen-achievement/index';

import {
    ProfileComponent,
    ProfileCitizenFollowersComponent,
    ProfileCitizenFollowedComponent,
    CitizenSearchComponent
} from './citizen/index";

import {
    CommunityProfileComponent,
    CommunitySearchComponent,
    CommunityAddComponent,
    CitizenProfileCommunityComponent
} from './community/index';
import { FeedbackComponent, PageHeaderComponent } from './commons/index";

const appRoutes: Routes = [
    {
        path: '',
        component: AuthComponent,
        canActivate: [AuthenticatedGuard]
    },
    {
        path: 'recover-password',
        component: RecoverPasswordComponent,

```

```

    canActivate: [AuthenticatedGuard]
  },
  {
    path: 'achievement-search',
    component: AchievementSearchComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'achievement-add/:id',
    component: AchievementAddComponent,
    canActivate: [AnonymousGuard],
    data : {isEditMode : false}
  },
  {
    path: 'achievement-edit/:id',
    component: AchievementAddComponent,
    canActivate: [AnonymousGuard],
    data : {isEditMode : true}
  },
  {
    path: 'citizen-achievement-add/:id',
    component: CitizenAchievementAddComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen-achievement-pending',
    component: CitizenAchievementPendingComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen-achievement-won',
    component: CitizenAchievementWonComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen-achievement-friend',
    component: CitizenAchievementFriendComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen-achievement-radius',
    component: CitizenAchievementRadiusComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen/:id',
    component: ProfileComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen/followers/:id',
    component: ProfileCitizenFollowersComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen/followed/:id',
    component: ProfileCitizenFollowedComponent,
    canActivate: [AnonymousGuard]
  },
  {

```

```

    path: 'citizen-search',
    component: CitizenSearchComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'community-profile/:id',
    component: CommunityProfileComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'community-search',
    component: CommunitySearchComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'community',
    component: CommunityAddComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'community/:id',
    component: CommunityAddComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'citizen-profile-community/:id',
    component: CitizenProfileCommunityComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'feedback',
    component: FeedbackComponent,
    canActivate: [AnonymousGuard]
  },
  {
    path: 'header',
    component: PageHeaderComponent,
    canActivate: [AnonymousGuard]
  }
];

export const routing: ModuleWithProviders = RouterModule.forRoot(appRoutes);

```