



Πολυτεχνική Σχολή
Τμήμα Μηχανικών Ηλεκτρονικών Υπολογιστών &
Πληροφορικής



Project Code v1.0

Ομάδα

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Κώδικας PlantUML αρχικοποίησης κλάσεων Java

```
@startuml
!pragma scale 1000
left to right direction

class Login {
    -String username
    -String password
    -- Methods --
    + setUsername(username: String): void
    + getUsername(): String
    + setPassword(password: String): void
    + getPassword(): String
    + validateCredentials(): boolean
    + displayLoginForm(): void
    + submitLoginForm(): void
    + resetPassword(): void
    + displayPasswordResetForm(): void
}

class Register {
    -String username
    -String email
    -String password
    -String confirmPassword
    -String fullname
    -String phoneNumber
    -String userType
    -- Methods --
    + setUsername(username: String): void
    + getUsername(): String
    + setEmail(email: String): void
    + getEmail(): String
    + setPassword(password: String): void
    + getPassword(): String
    + setConfirmPassword(confirmPassword: String): void
    + getConfirmPassword(): String
    + setFullname(fullname: String): void
    + getFullname(): String
    + setPhoneNumber(phoneNumber: String): void
    + getPhoneNumber(): String
    + setUserType(userType: String): void
    + getUserType(): String
    + validateRegistrationForm(): boolean
    + displayRegistrationForm(): void
    + submitRegistrationForm(): void
    + checkUsernameAvailability(username: String): boolean
    + checkEmailAvailability(email: String): boolean
}
```

```

class User {
    -int user_id
    -String username
    -String fullname
    -String email
    -String password
    -List<Favorites> favorites
    -List<Posts> posts
    -List<Draft Posts> drafts
    -List<Projects> projects
    -- Methods --
    + createEvent(): void
    + initiateProposal(): void
    + sendProposal(proposal_id): void
    + acceptProposal(proposal_id, user_id): void
    + rejectProposal(proposal_id): void
    + selectArtist(): void
    + addToFaves(post_id): void
    + addToFaves(event_id): void
    + makeNewPost(): void
    + submitNewPost(): void
    + denyPreview(): void
    + confirmPreview(): void
    + addToDraft(): void
    + selectReceivedProposals(): void
    + selectProposal(): void
    + initiateCollaboration(artist_id, buyer_id): void
    + deleteProposal(): void
    + confirmDeletion(): void
    + confirmCollaboration(): void
    + selectActivity(): void
    + selectViewCollaboration(): void
    + chooseProjectReview(project_id): void
    + selectArtProject(): void
    + selectEvent(): void
    + showInterest(eventID, userId): void
    + denyCollaboration(): void
    + selectProjectStatus(): void
    + changeProjectStatus(): void
    + sendCancelForm(): void
    + deny(): void
    + confirmChange(): void
    + selectMessage(): void
    + confirm(): void
    + sendRejectionForm(): void
    + sendReviewForm(): void
    + selectPost(): void
    + selectPosts(): void
    + editPost(): void
    + sendPostForm(): void
    + deleteForm(): void

```

```

+ delete(): void
}

class Artist {
    -int artist_id
    -- Methods --
    + completeProject(project_id): void
    + cancelProject(project_id): void
}

class Buyer {
    -int buyer_id
    -- Methods --
    + acceptProjectCompletion(project_id): void
    + rejectProjectCompletion(project_id): void
}

class Page {
    - String pageTitle
    -String pageURL
    -String pageContent
    -String pageType
    - List<String> navigationLinks
    -- Methods --
    + getPageTitle(): String
    + setPageTitle(title): void
    + getPageURL(): String
    + setPageURL(url): void
    + getPageContent(): String
    + setPageContent(content): void
    + getPageType(): String
    + setPageType(type): void
    + getNavigationLinks(): List<String>
    + addNavigationLink(link): void
    + removeNavigationLink(link): void
}

class Proposal {
    -int proposal_id
    -String proposal_title
    -double proposal_budget
    -String proposal_details
    -- Methods --
    + saveProposalToSent(proposal_id, user_id): void
    + saveProposalToReceived(proposal_id, user_id): void
    + displayReceivedProposals(user_id): void
    + getReceivedProposals(user_id): List<Proposal>
    + removeProposal(proposal_id): void
    + displayProposalInfo(proposal_id): void
}

```

```

class Post {
- int post_id
- boolean draft
  -- Methods --
  + saveToFaves(post_id): void
  + saveToHomePage(post_id): void
  + saveToActivity(post_id, user_id): void
  + saveToDraft(post_id): void
  + createNewPost(post_id): void
  + displayPostInfo(): void
  + deleteFromActivity(): void
  + deleteFromHomepage(): void
}

class Project {
- int project_id
- String project_status
- String project_name
- String project_details
- String art_genre
- double budget_range
  -- Methods --
  + ongoingProject(artist_id, buyer_id): void
  + deleteFromHomepage(project_id): void
}

class Event {
- int event_id
- List<Integer> interested_users
- String art_genre
- String event_details
  -- Methods --
  + addInterestedUserToEvent(user_id, event_id): void
  + getEvents(): List<Event>
  + displayEventInfo(event_id): void
  + displayInterestedUsers(event_id): List<Integer>
  + saveToFaves(event_id): void
}

```

```
class Settings {
- String new_password
- String new_bio
- String new_photo
- String new_email
- String new_photo_url
  -- Methods --
+ changePassword(): void
+ changeBio(): void
+ changePhoto(): void
+ changeEmail(): void
+ displayPasswordForm(): void
+ displayPermissionForAlbum(): void
+ displayEmailForm(): void
+ displayBioForm(): void
}

class Bio {
  -String description
  -- Methods --
+ getUser(): User
+ setUser(user: User): void
+ getDescr(): String
}

class Password {
  -String password
  -- Methods --
+ savePassword(new_password): void
}

class Photo {
- String photoUrl
  -- Methods --
+ savePhoto(new_photo): void
}

class Email {
  - String email
  -- Methods --
+ saveEmail(new_email): void
}
```

```

class Activity {
- List<Integer> usersPosts
- List<Integer> collaborations
-- Methods --
+ getPosts(user_id): List<Post>
+ displayPosts(user_id): void
+ saveToActivity(): void
+ displayActivity(): void
+ deleteFromActivity(): void
}

class Reviews {
- List<Review> receivedReviews
- List<Review> sentReviews
-- Methods --
+ reviewExists(): boolean
+ submitReview(): void
+ saveSentReview(): void
+ saveReceivedReview(): void
+ calculateAvgScore(user_id): double
+ updateAvgScore(user_id): void
}

class ReviewForm {
- String reviewerName
- String reviewText
- int rating
- int project_id
-- Methods --
+ displayReviewForm(): void
}

class Collaboration {
--Methods--
+ getCollaborations(): List<Collaboration>
+ checkProjectStatus(): String
+ displayStatusOptions(): void
+ updateProjectStatus(): void
+ pendingApproval(): boolean
}

class Portfolio {
- List<Integer> projects
-- Methods --
+ saveToPortfolio(project_id): void
}

```



```

class Homepage {
    - List<Project> projects
    - List<Event> events
    - List<Artist> artists
    -- Methods --
    + displayHomepageContent(): void
    + getProject(): List<Project>
    + setProjects(postedProjects): void
    + getEvents(): List<Event>
    + setEvents(events): void
    + getArtists(): List<Artist>
    + setArtists(artistProfiles): void
    + display(): void
    + deleteFromHomepage(project_id): void
    + saveToHomepage(): void
}

class SearchAndFilters {
    -String searchQuery
    -Map<String, String> filters
    -- Methods --
    + setSearchQuery(query: String): void
    + getSearchQuery(): String
    + addFilter(filterName: String, filterValue: String): void
    + removeFilter(filterName: String): void
    + getFilters(): Map<String, String>
    + applyFilters(): void
    + displaySearchBar(): void
    + displayFilters(): void
    + clearFilters(): void
    + executeSearch(): List<Result>
}

class Message {
    -String sender
    -String recipient
    -String content
    -Date timestamp
    -- Methods --
    + getSender(): String
    + getRecipient(): String
    + getContent(): String
    + getTimestamp(): Date
}

```

```

class Chat {
    - int chat_id
    - List<Message> messages
    -- Methods --
    + sendMessage(message): void
    + getMessages(): List<Message>
}

class SystemMessage {
    - int system_message_id
    -String content
    -Date timestamp
    -boolean success
    -boolean failure
    -- Methods --
    + getSystem_message_id(): int
    + getContent(): String
    + getTimestamp(): Date
    + isSuccess(): boolean
    + isFailure(): boolean
    + setSystem_message_id(int system_message_id): void
    + setContent(String content): void
    + setTimestamp(Date timestamp): void
    + setSuccess(boolean success): void
    + setFailure(boolean failure): void
    + displaySuccessMsg(): void
    + confirmationMsg(): void
    + notifyBuyer(): void
    + notifyArtist(): void
    + notifyUsers(): void
}

class Permission {
    - boolean isGranted
    -- Methods --
    + Permission(): void
    + askForPermission(permissionType): void
    + isPermissionGranted(): boolean
    + setPermissionGranted(isGranted): void
    + displayPermissionForAlbum(): void
}

class Album {
    -- Methods --
    + displayAlbum(): void
}

```

```
class Inbox {
  - User user_id
  -List<SystemMessage> systemMessages
  -List<Chat> chats
  -- Methods --
  + addSystemMessage(message): void
  + getSystemMessages(): List<SystemMessage>
  + addChat(chat): void
  + getChats(): List<Chat>
}
```

```
class Form {
  -Map<String, String> formData
  -- Methods --
  + addFormData(field, value): void
  + getFormData(field): String
  + validateForm(): boolean
  + submitForm(): void
}
```

```
class ProjectForm {
  - int project_id
  -String project_status
  -String project_name
  -String project_details
  -String art_genre
  -double budget
  -- Methods --
  + validateForm(): boolean
  + submitForm(): void
}
```

```
class ProposalForm {
  - int proposal_id
  -String proposal_title
  -double proposal_budget
  -String proposal_details
  -- Methods --
  + submitForm(): void
  + displayProposalForm(): void
}
```

```
class PostForm {
  - String name
  -String art_genre
  -String details
  -- Methods --
  + submitForm(): void
  + createNewPost(post_id): void
  + displayPreview(): void
  + saveToDrafts(post_id): void
  + return(): void
  + displayPostForm(): void
  + getPostForm(): PostForm
}

class CancelForm {
  - String cancellation_reason
  -- Methods --
  + getCancelForm(): CancelForm
  + displayCancelForm(): void
  + submitCancelForm(): void
  + sendCancelFormToBuyer(): void
}

class ValidationTool {
  -- Methods --
  + validateTitle(title): boolean
  + validateDetails(description): boolean
  + validateBudget(budget): boolean
  + validateProposalForm(proposal_id): boolean
  + validateProjectForm(): boolean
  + validateEventForm(): boolean
  + validateCancellationForm(): boolean
  + invalidInput(): void
  + validInput(): void
  + validateReviewForm(): boolean
}

class ChangePasswordForm {
  -- Methods --
  + updatePassword(new_password): void
  + submitForm(): void
}

class ChangeEmailForm {
  -- Methods --
  + updateEmail(new_email): void
  + submitForm(): void
}
```

```

class EditBioForm {
    -- Methods --
    + updateBio(new_bio): void
    + submitForm(): void
}

class RejectionForm {
    -- Methods --
    + getRejectionForm(): RejectionForm
    + displayRejectionForm(): void
    + submitForm(): void
}

class NavigationBar {
    -- Methods --
    + displayPostForm(): void
    + displayMessages(): void
    + displayHomepage(): void
    + displayProfile(): void
}

```

```

User <|-- Artist
User <|-- Buyer
Page <|-- Post
Proposal -- Project
Post <|-- Project
Post <|-- Event
Page <|-- Settings
Settings -- Bio
Settings -- Password
Settings -- Photo
Settings -- Email
Album -- Photo
Album -- Permission
User -- Activity
Project<|-- Collaboration
User -- Reviews
Page <|-- Reviews
Reviews -- ReviewForm
Form <|-- ReviewForm
Project -- Portfolio
Page <|-- Portfolio
Page <|-- Homepage
Homepage -- Event
Homepage -- Project
Homepage -- Artist
Message --|> Chat
Chat --|> Inbox
Inbox <|-- SystemMessage
Permission --|> SystemMessage
Page <|-- Inbox

```

```
Inbox -- User
User -- Form
Form <|-- ProjectForm
Form <|-- ProposalForm
Form <|-- PostForm
Form <|-- CancelForm
Form <|-- ChangePasswordForm
Form <|-- ChangeEmailForm
Form <|-- EditBioForm
Form <|-- RejectionForm
Form -- ValidationTool
Page -- NavigationBar
Login -- User
Login --|> Page
Register -- User
Register --|> Page
SearchAndFilters -- Homepage
@enduml
```

Σύνδεσμος για το Github :

<https://github.com/billpap123/softwaredev>

Στο github μπορεί κανείς να επιβεβαιώσει το διαμοιρασμό των αρχείων της ομάδας μας.

Δυστυχώς λόγω έλλειψης χρόνου δεν καταφέραμε να αναπτύξουμε τον κώδικα της εφαρμογής μας, ωστόσο τα υπόλοιπα τεχνικά κείμενα καθώς και η εξέλιξη αυτών είναι ανεβασμένα στο κοινό αποθετήριο μας.