



CS-319

Deliverable 2

Team 06

Group Members

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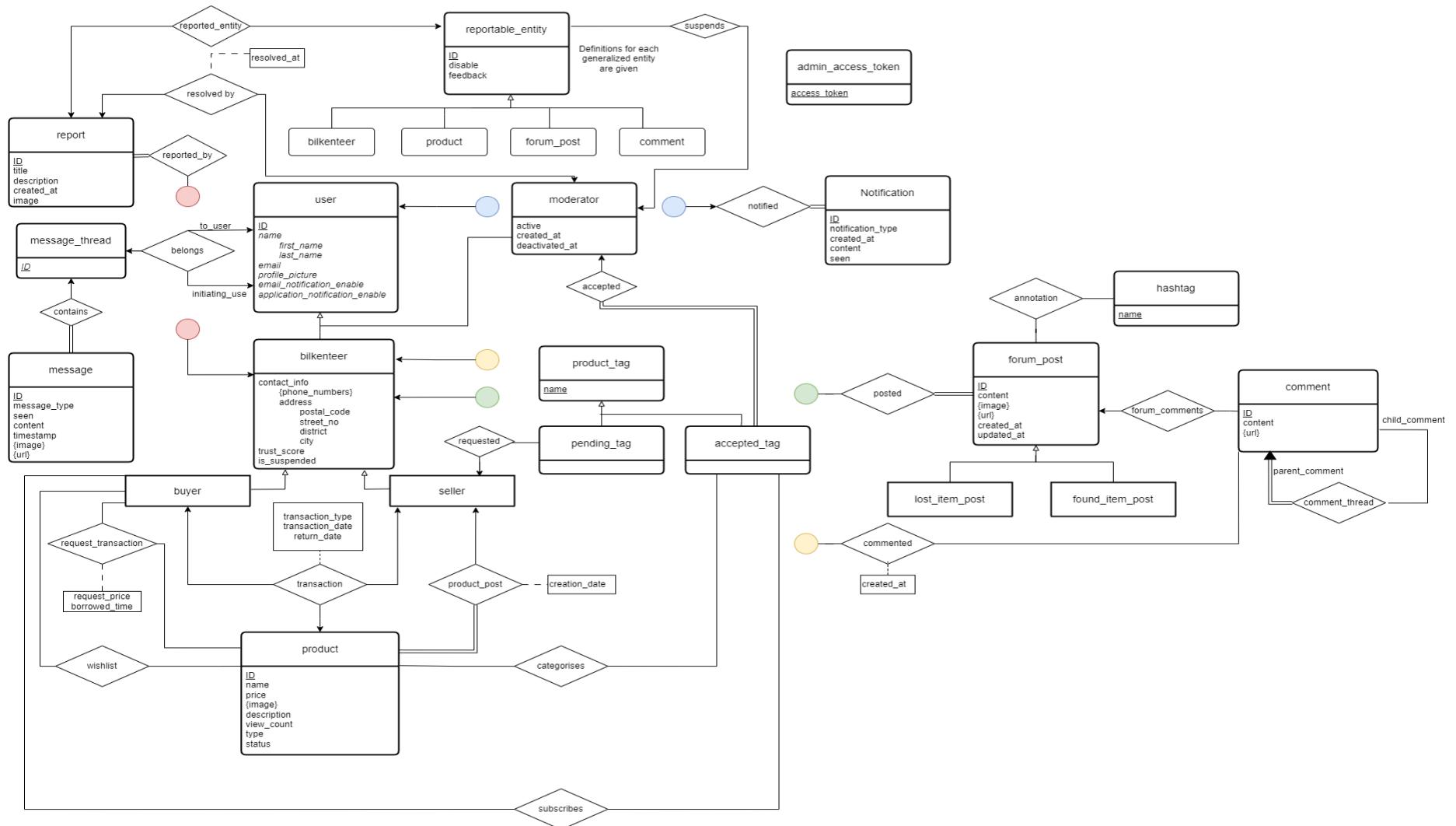
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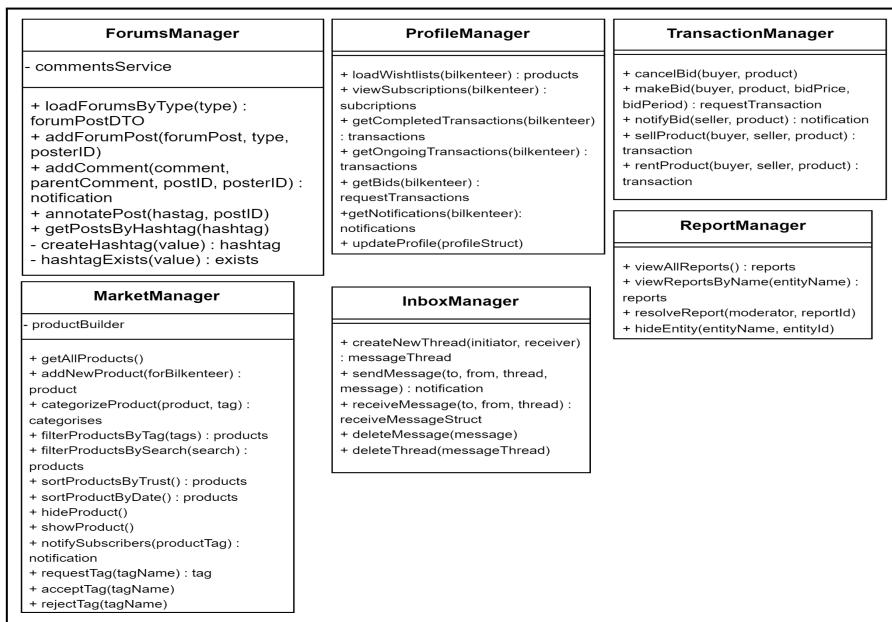
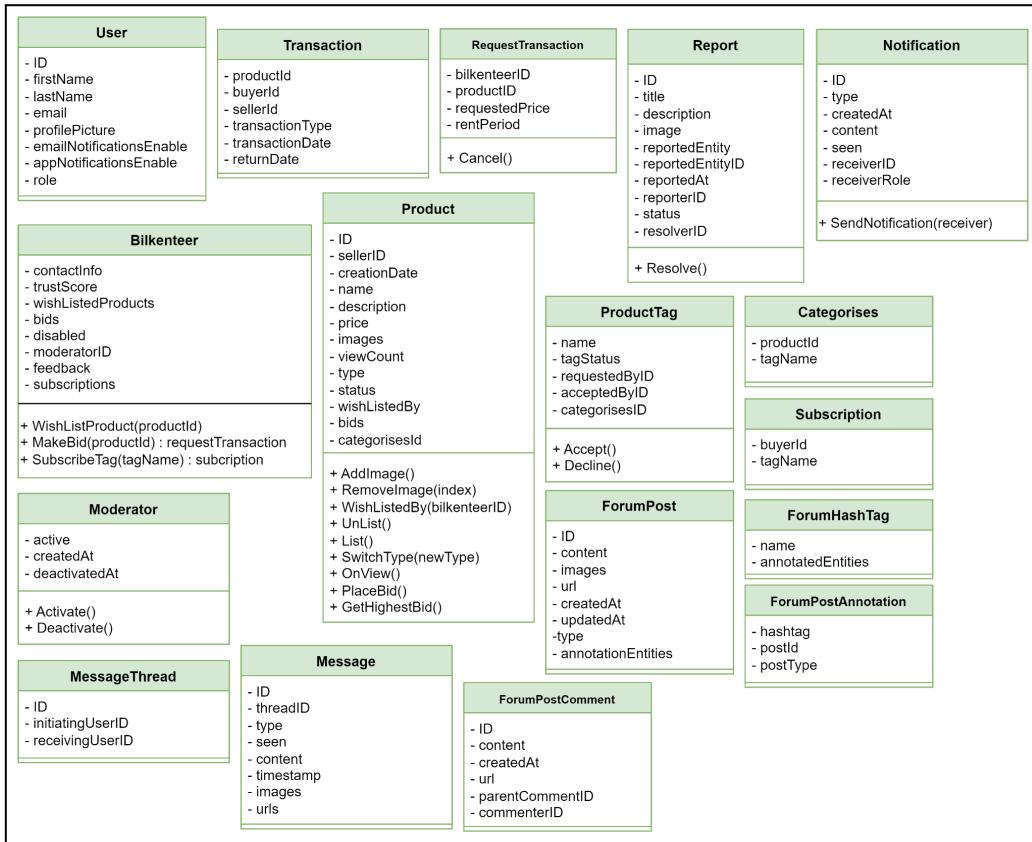
Date: 12/11/2023

1. Entity-Relationship Diagram

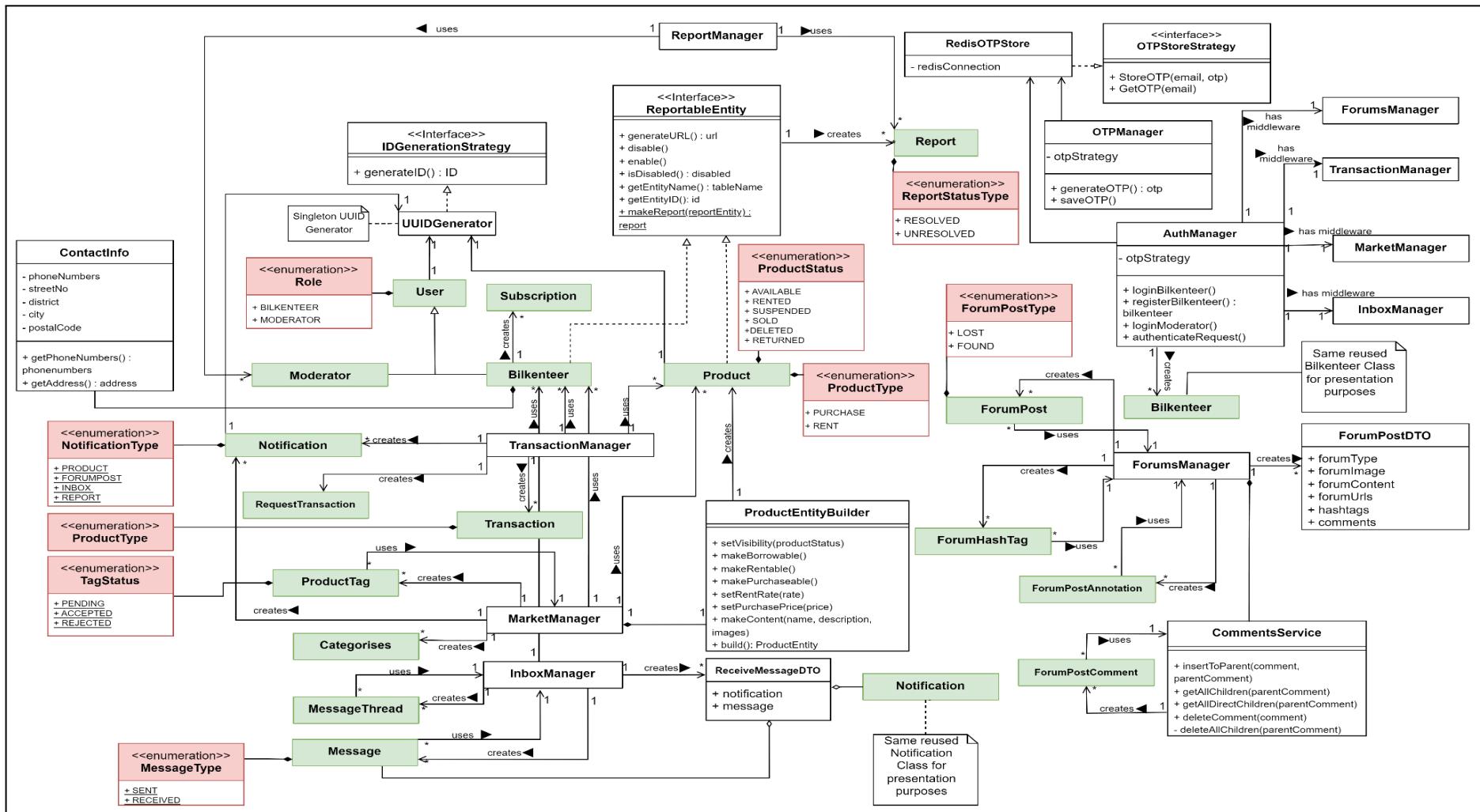


2. Class Diagram

2.1 Class Definitions



2.2 Class Relationships



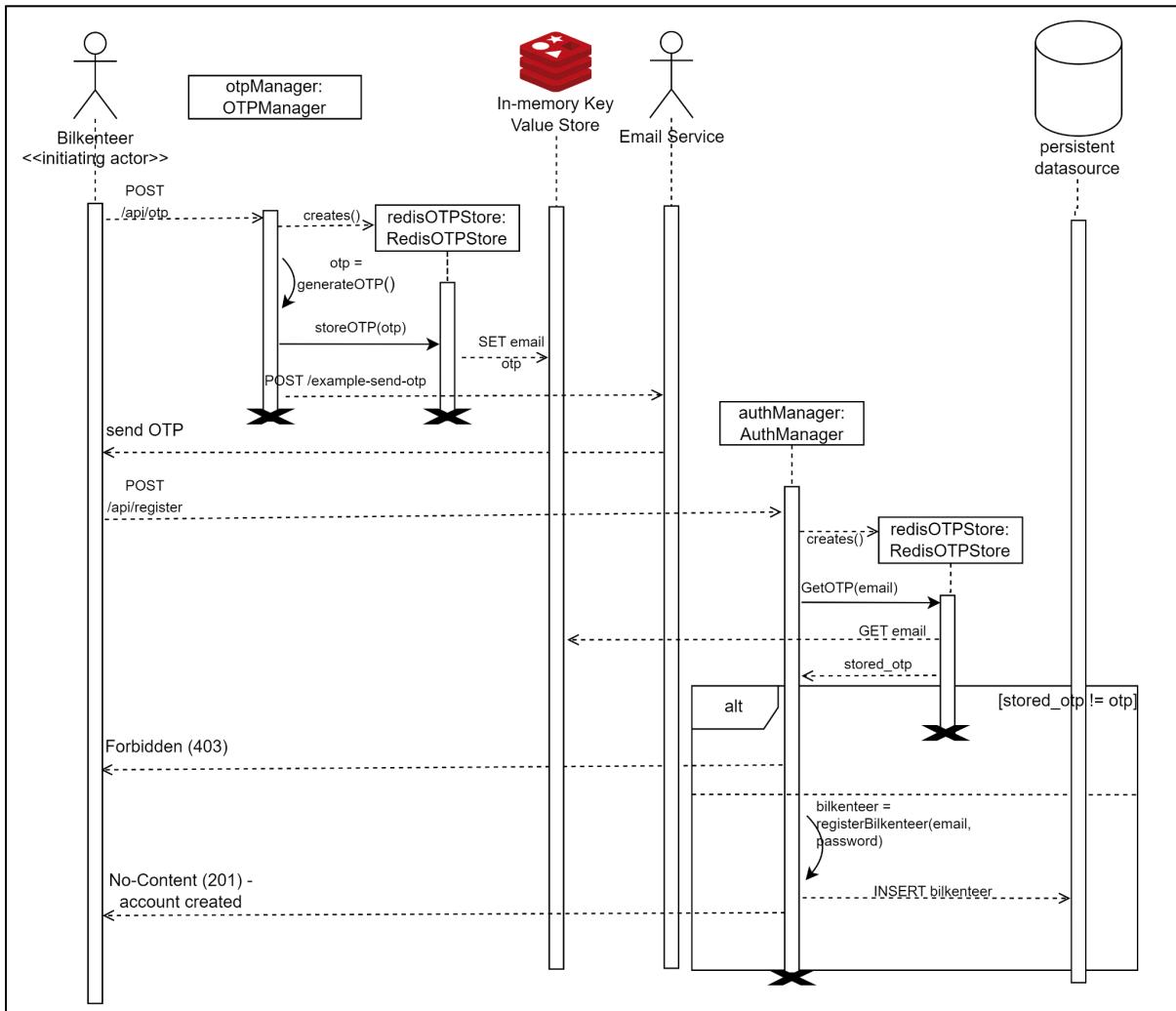
- The directed association with the relationship name '**has middleware**' means that the methods on the directed-to managers have the AuthManager as a middleware. All requests routed to the respective managers require the method authenticateRequest of the Authmanager first.
- The directed association with the relationship name '**creates**' means that the directed-from manager is responsible for creating new entities of the other class. The multiplicity 1 to many means that a manager can create multiple entities in the data source
- The directed association with the relationship name '**uses**' means that the managers use the directed-to entity (the green color-coded classes) to make requests to the data source
- All associations without the multiplicities mean a 1 to 1 relationship
- The association between entity classes and the UUIDGenerator ensures that the strategy to be used by the entity to generate IDs uses UUID
- The notation to add relationship names on associations was retrieved from <https://www.visual-paradigm.com/guide/uml-unified-modeling-language/what-is-class-diagram/>

3. Sequence Diagrams

3.1 Account Registration Sequence Diagram

Scenario: New Account Registration

The Bilkenteer initiates the process with a POST request to the OTPManager, which creates an OTP through the RedisOTPStore and stores it in an in-memory key-value store. This OTP is then sent to the BilkentUser's email by the Email Service. Next, the Bilkenteer sends the OTP back to the system through a POST request to validate it. The AuthManager retrieves the OTP from RedisOTPStore, and if the provided OTP matches the stored one, the Bilkenteer is allowed to proceed with the registration by making a POST request to `/api/register`. If the OTP is correct, the AuthManager creates an account (`registerBilkenteer`) in the persistent data source, and a successful response (No-Content 201) is returned, indicating the account creation. If the OTP doesn't match, a Forbidden (403) error is returned, denying the registration.

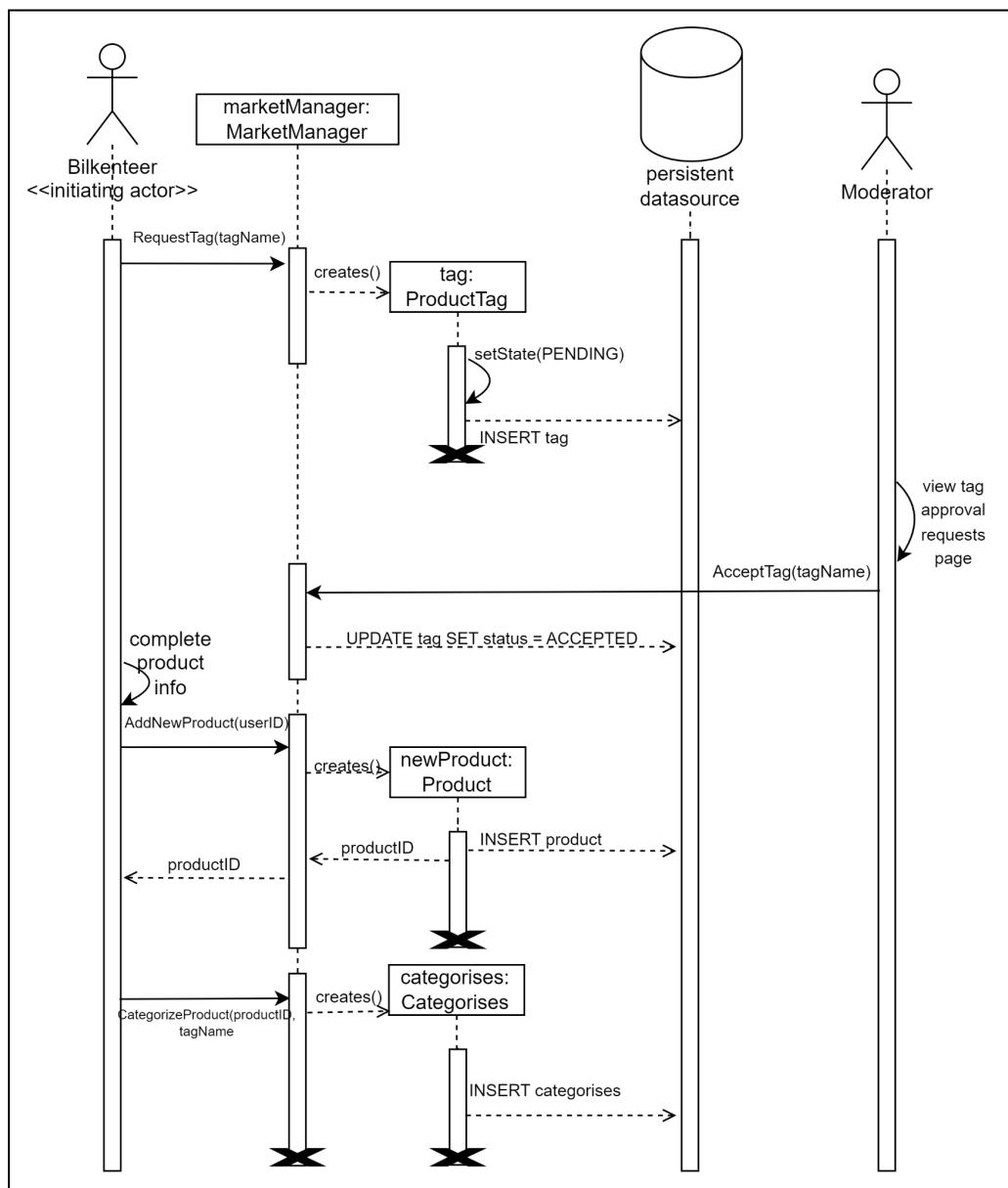


NOTE: All Insertion to the persistent data source calls the `generateID()` method of the `UUIDGenerator` singleton or an equivalent ID generation strategy. All interactions with the data sources are depicted through pseudo-queries.

3.2 Product Upload with New Tag Approval

Scenario: Uploading a product with new tag approval.

A Bilkenteer initiates the process by requesting to add a new tag through the MarketManager. The MarketManager creates a ProductTag, sets its state to PENDING, and then inserts the tag into the persistent data source. Meanwhile, a Moderator views the tag approval requests on a separate interface. Upon approval of the tag by the Moderator (using the AcceptTag action), the MarketManager updates the tag's state to ACCEPTED. The Bilkenteer then completes the product information and calls the MarketManager to add the new product, which creates a Product instance and inserts it into the database. Finally, the MarketManager creates a Categorises instance, which categorizes the product with the new tag, and this categorization is also inserted into the database.

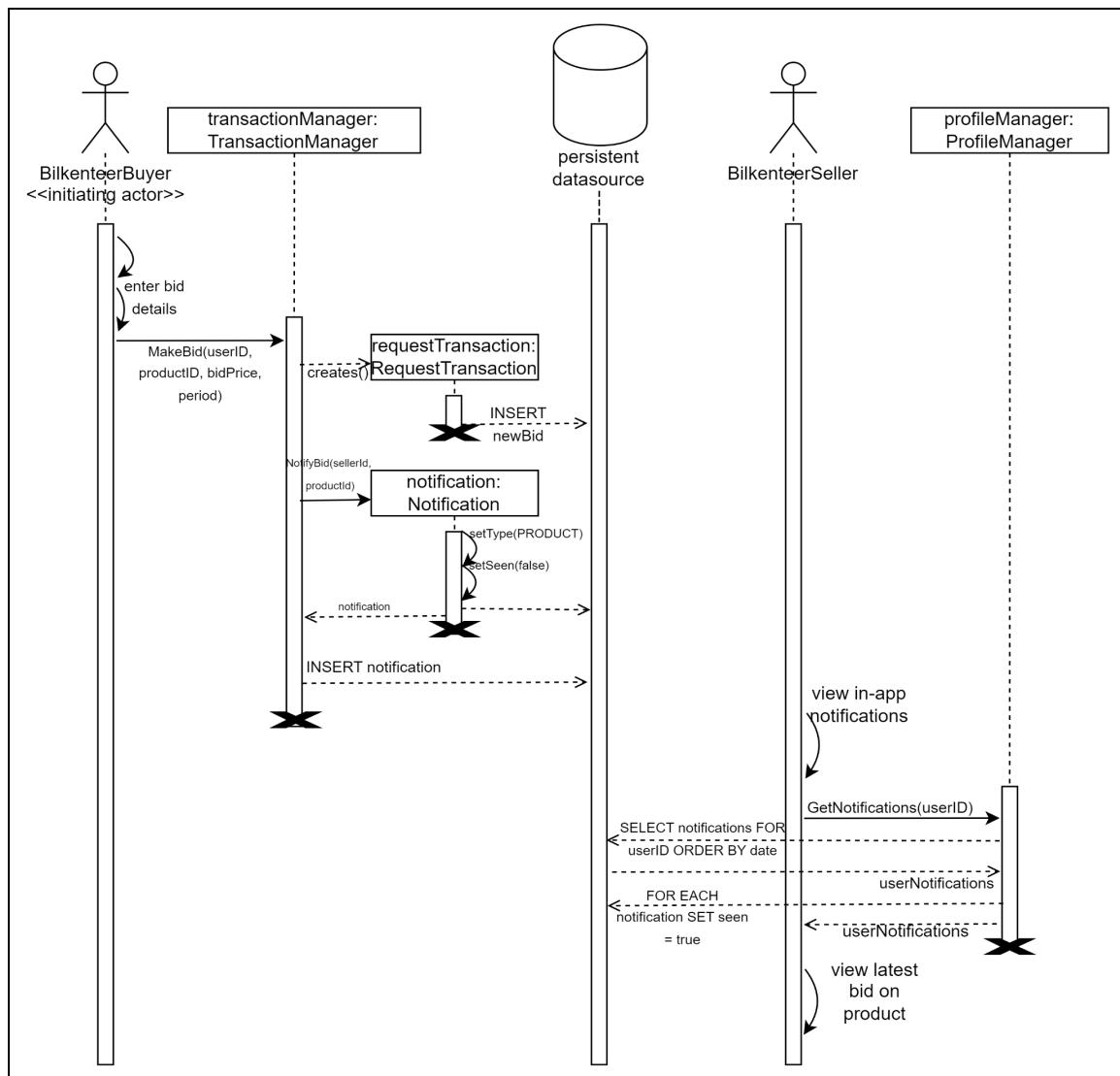


3.3 Bid Placement on Product and Notification to Seller

Scenario: Bid placement on a product by the buyer and notification to the seller

The BilkenteerBuyer initiates the process by entering bid details and invoking the MakeBid function of the TransactionManager, which creates a RequestTransaction. This transaction is then inserted into the persistent data source. Simultaneously, a Notification instance is created with the type set to PRODUCT and seen status set to false, which is then inserted into the persistent data source.

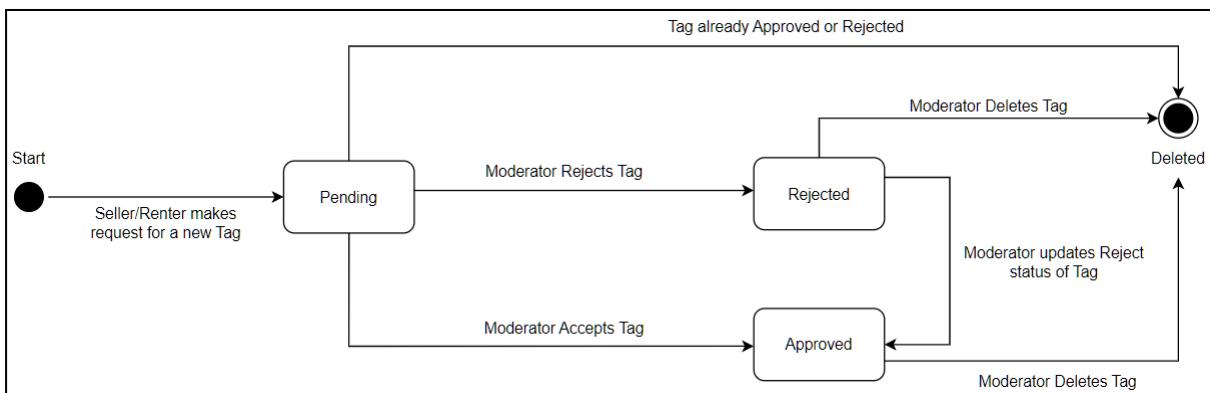
Following this, the ProfileManager for the BilkenteerSeller retrieves notifications by executing a SELECT query on the persistent data source to fetch notifications ordered by date where the seen status is false. For each notification, the seen status is updated to true. The BilkenteerSeller uses the ProfileManager to view in-app notifications and the latest bid on the product, which completes the bid placement and notification process.



4. State Diagrams

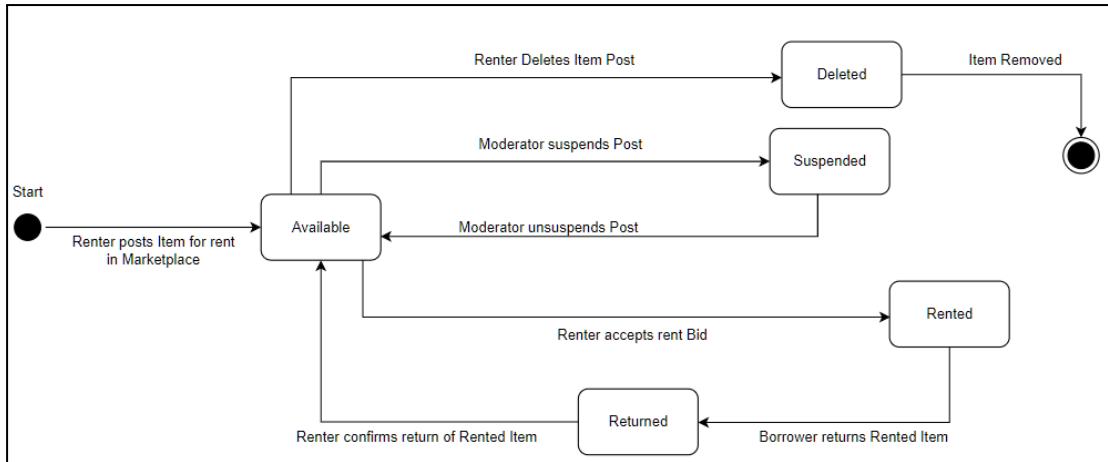
4.1 Tag Approval Workflow:

- It begins when a seller/renter requests a new tag, setting the process to a “Pending” state.
- The moderator can either accept or reject the tag.
 - If the tag is accepted, it moves to an “Approved” state. The moderator can also delete an approved tag, moving it to the “Deleted” state.
 - If the tag is rejected, it moves to a “Rejected” state. The moderator then has the option to update the tag’s rejection status further. The moderator can then delete the tag, which transitions it to a “Deleted” state.
- The “Deleted” state is the final state for a tag, meaning it is removed from the system, and the process ends.



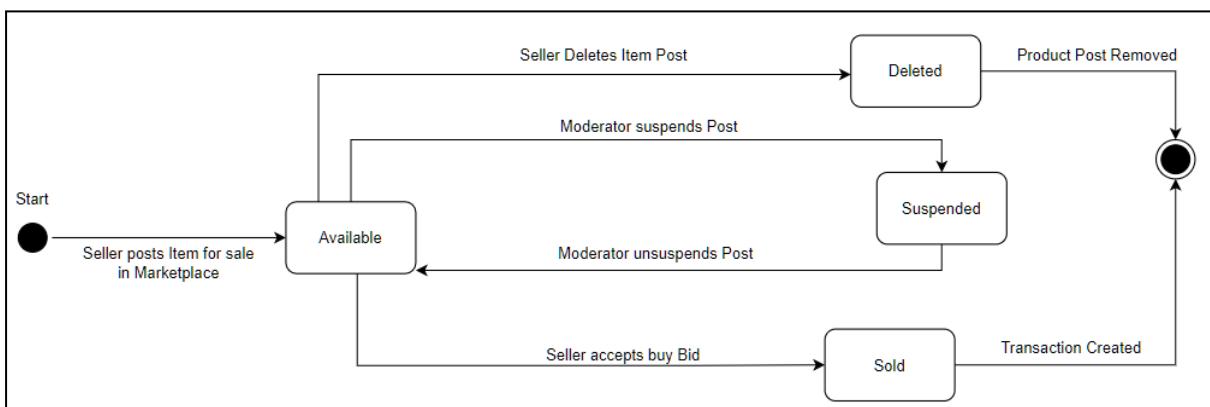
4.2 Rental Item Workflow:

- It starts when a renter posts an item for rent, marking it as “Available.”
- The item can then transition through several states:
 - If the renter accepts a rent bid, the item state changes to “Rented.”
 - The renter or a moderator can delete or suspend the post, moving it to “Deleted” or “Suspended” states, respectively.
 - If the borrower returns the item, the state changes to “Returned.”
- A moderator can unsuspend a post, returning it to “Available.”



4.3 Selling Item Workflow:

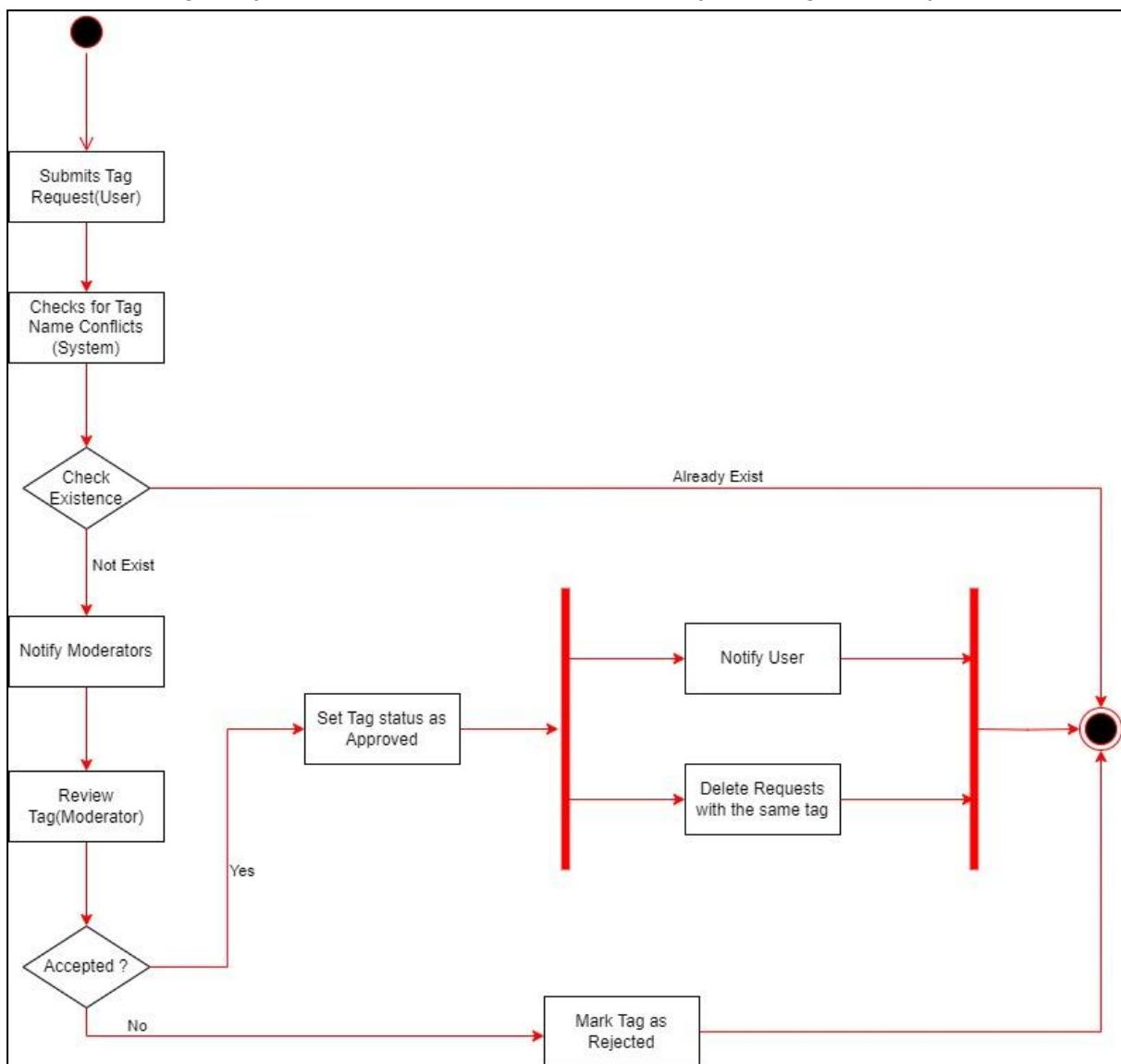
- The process initiates when a seller posts an item for rent or sale, making it "Available."
- The post can be deleted or suspended by the seller or a moderator, respectively, leading to "Deleted" or "Suspended" states.
- If the seller accepts a buy bid, the item state changes to "Sold," creating a transaction.



5. Activity Diagrams

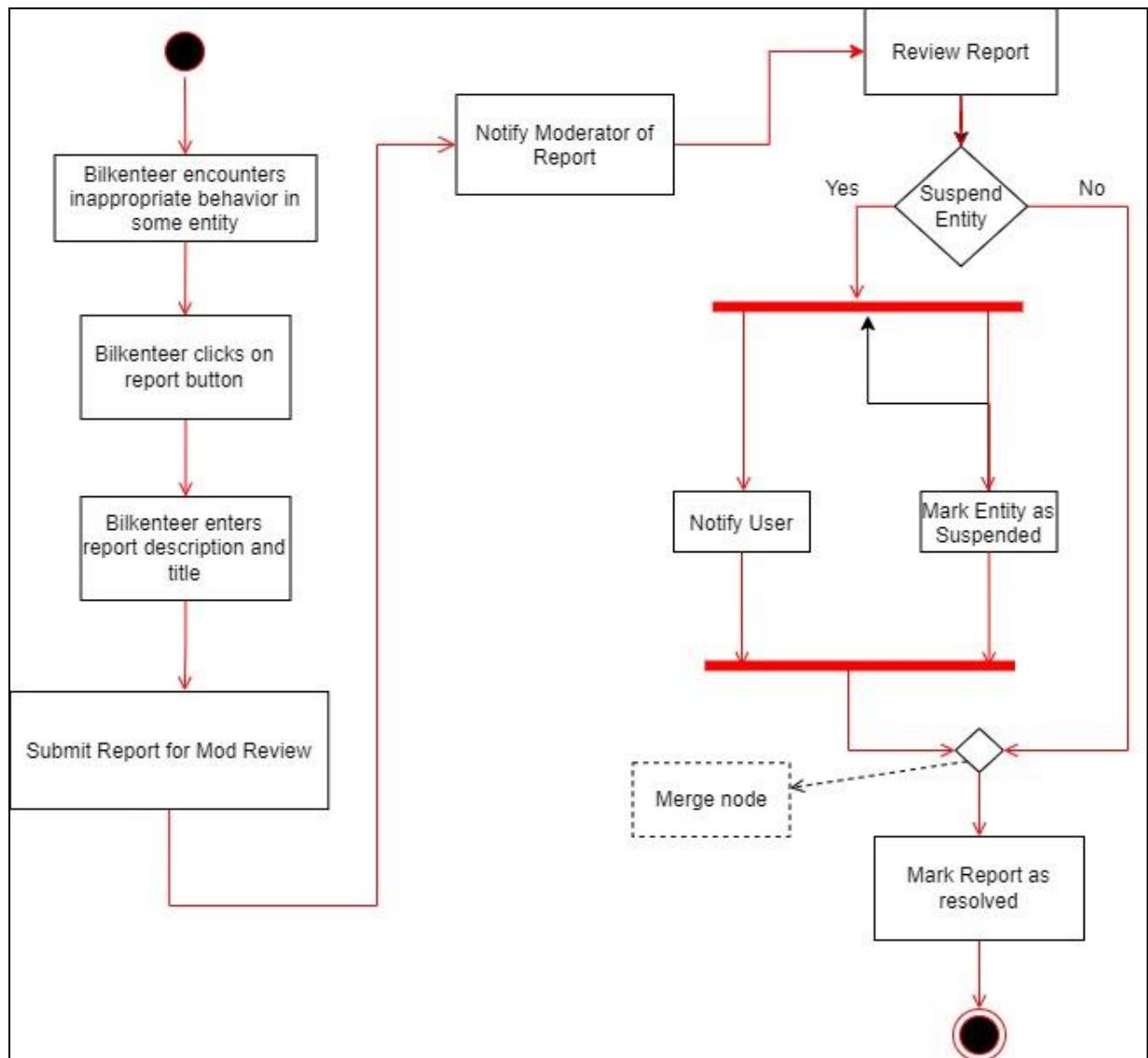
5.1 Tag Approval Activity

- Submission of a tag initiates the activity.
- The system verifies tag uniqueness to prevent duplication. This includes its existence in accepted or rejected tags list.
- Moderators receive a prompt notification about the new tag request.
- If the tag is approved:
 - The requester receives a confirmation notification.
 - The system automatically deletes any duplicate requests for the approved tag.
- If the tag is rejected, it will be added to the list of rejected tags in the system.



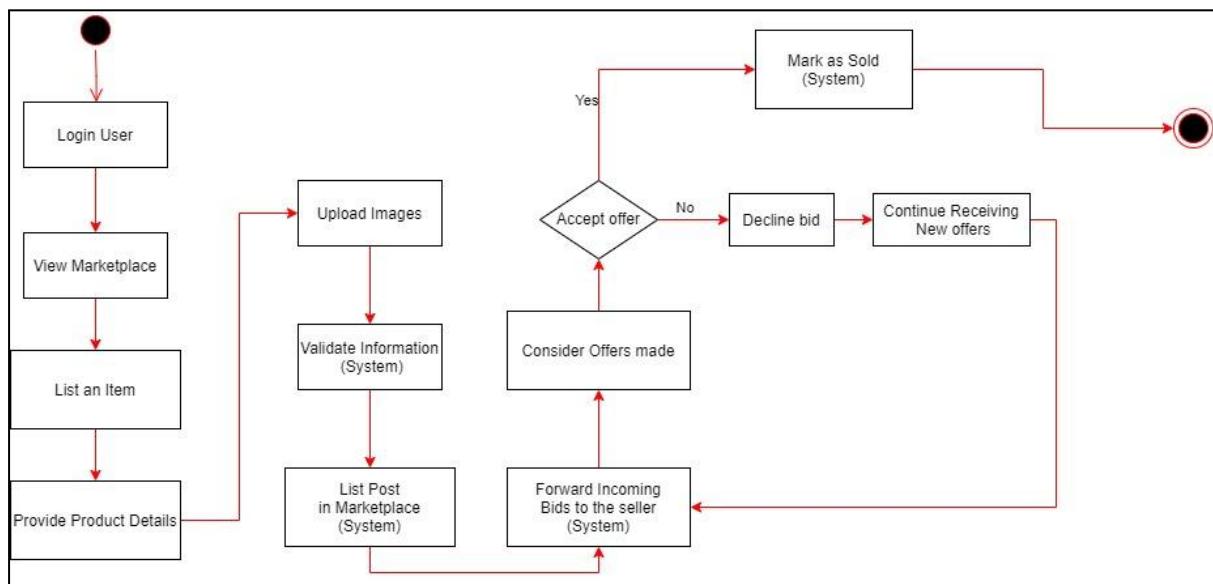
5.2 Report Activity

- Submission of a report initiates the activity.
- Users can report other users, comments and specific forum/product posts.
- The system promptly forwards report details to moderators.
- Moderators have the authority to:
 - Suspend the relevant user.
 - Delete the flagged post/comment.
- The relevant user will be informed of the suspension/deletion.



5.3 Selling Activity

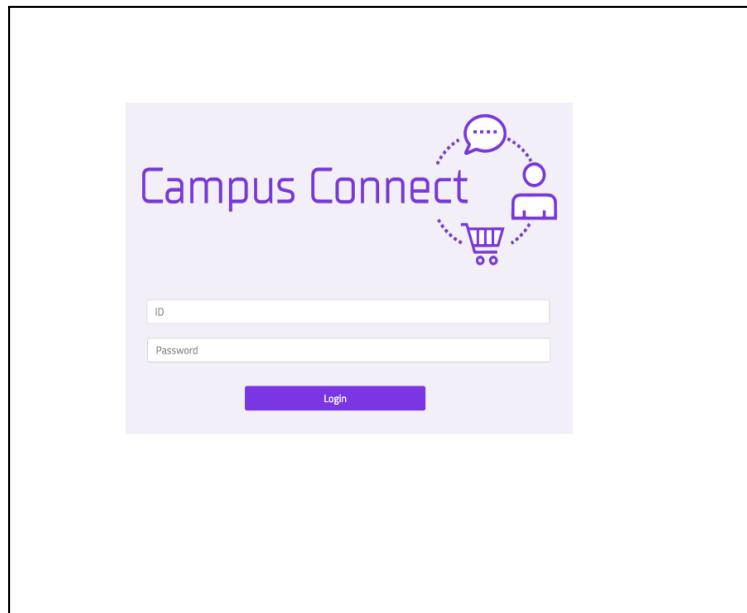
- Users initiate the selling process by clicking "List an Item" in the marketplace
- Users must have detailed product information and accompanying images during the listing process.
- The system verifies the provided information and actively displays the item on the marketplace.
- Incoming bids from potential buyers are forwarded to the seller by the system.
- Upon acceptance of an offer, the user prompts the system to designate the product as "sold" in the marketplace. Alternatively, the user can decline an offer, instructing the system to redirect new offers for consideration.



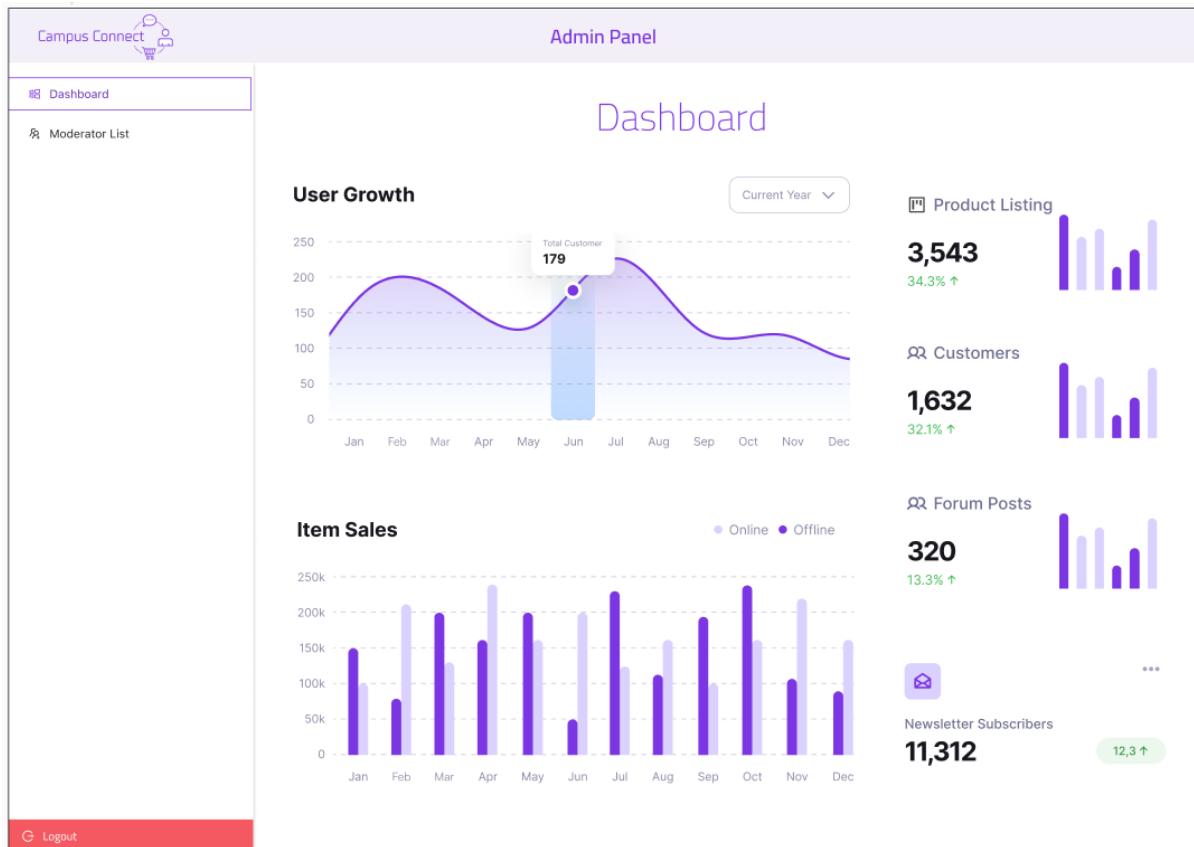
6. UI Mockups

6.1 Admin Screens

6.1.1 Admin Login



6.1.2 Admin Homepage/View analytics



6.1.3 Moderator List (includes delete moderator)

The screenshot shows the 'Moderator List' page within the 'Campus Connect' application. At the top right, there are links for 'Market Place', 'Lost & Found', and a user profile icon. On the left, a sidebar menu includes 'Dashboard' and 'Moderator List'. The main content area has a title 'Moderator List' and a sub-header 'Create New Moderator'. Below is a table with columns: Moderator ID, First Name, Last Name, Created Date, and Actions (represented by a red trash can icon). The table contains six rows of data. At the bottom right is a pagination control with buttons for 1, 2, 3, 4, 5, and >.

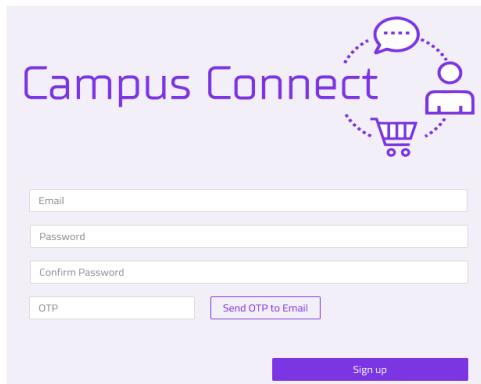
Moderator ID	First Name	Last Name	Created Date	Actions
1	Demir	Mehmet	20-12-2023	
2	Emir	Elif	20-12-2023	
3	Ali	Emir	20-12-2023	
4	Burak	Deniz	20-12-2023	
5	Onar	Alp	20-12-2023	
6	Deniz	Elif	20-12-2023	

6.1.4 Create Moderator

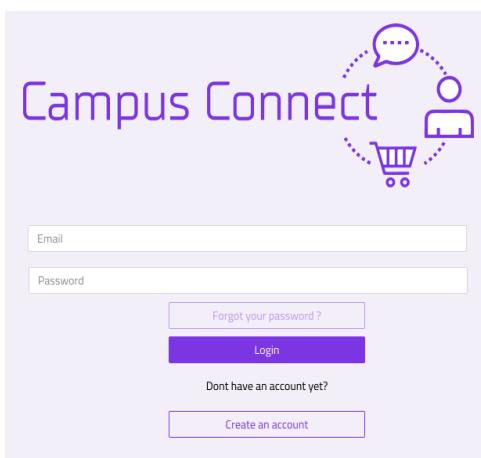
The screenshot shows the 'Create New Moderator' dialog box. At the top right is a close button ('x'). The form contains five input fields with validation messages: 'First Name : Enter First Name', 'Last Name : Enter Last Name', 'Email : Enter Email', 'Phone Number : +48 Enter Phone Number', and 'Password : Password'. To the right of the form is a vertical 'Actions' column containing six red trash can icons. At the bottom center is a 'Save' button.

6.2 User Screens

6.2.1 Sign Up



6.2.2 Login



6.2.3 Logged in User

The screenshot shows the Campus Connect application interface for a logged-in user. At the top, there is a navigation bar with links for 'Campus Connect', 'Search' (with a magnifying glass icon), 'Market Place', 'Lost & Found', 'List an Item' (with a plus sign icon), and a user profile picture. To the right of the profile picture is a vertical sidebar menu with the following options: Profile, Inbox, My Products, My Forum Posts, Wishlist, Transaction History, Settings, and Logout. The 'Logout' option is highlighted with a red background.

6.2.4 Not Logged in User

The screenshot shows the Campus Connect application interface for a not-logged-in user. At the top, there is a navigation bar with links for 'Campus Connect', 'Search' (with a magnifying glass icon), 'Market Place', 'Lost & Found', 'Sign Up' (with a person icon), and 'Login' (with a lock icon). Below the navigation bar are two large promotional banners: 'Market Place' (showing a smartphone and a laptop) and 'Lost and Found Form' (showing a person sitting on the ground with a magnifying glass). The main content area features a section titled 'What would you like to find?' with seven categories: Textbooks, Electronics, Kitchenware, Bicycles, Instruments, Games, and Furniture. Below this is a 'Trending Now' section with a grid of five items: Basys 3 Board, Iphone XS, Epic of Gilgamesh - Evolution, Digital Design and Architecture, and Basys 3 Board with box. Each item has a thumbnail, a title, a price, and a star rating.

Item	Description	Price	Rating
Basys 3 Board	Hardware CS-223 Basys Board	2,100 TL	★★★★★
Iphone XS	Mobile iPhone Used Black	21,100 TL	★★★★★
Epic of Gilgamesh - Evolution	Textbook HUM-111 Humanities	600 TL	★★★★★
Digital Design and Architecture	Textbook CS-223 CS-224	1,200 TL	★★★★★
Basys 3 Board with box	Hardware CS-223 Basys Board	2,500 TL	★★★★★

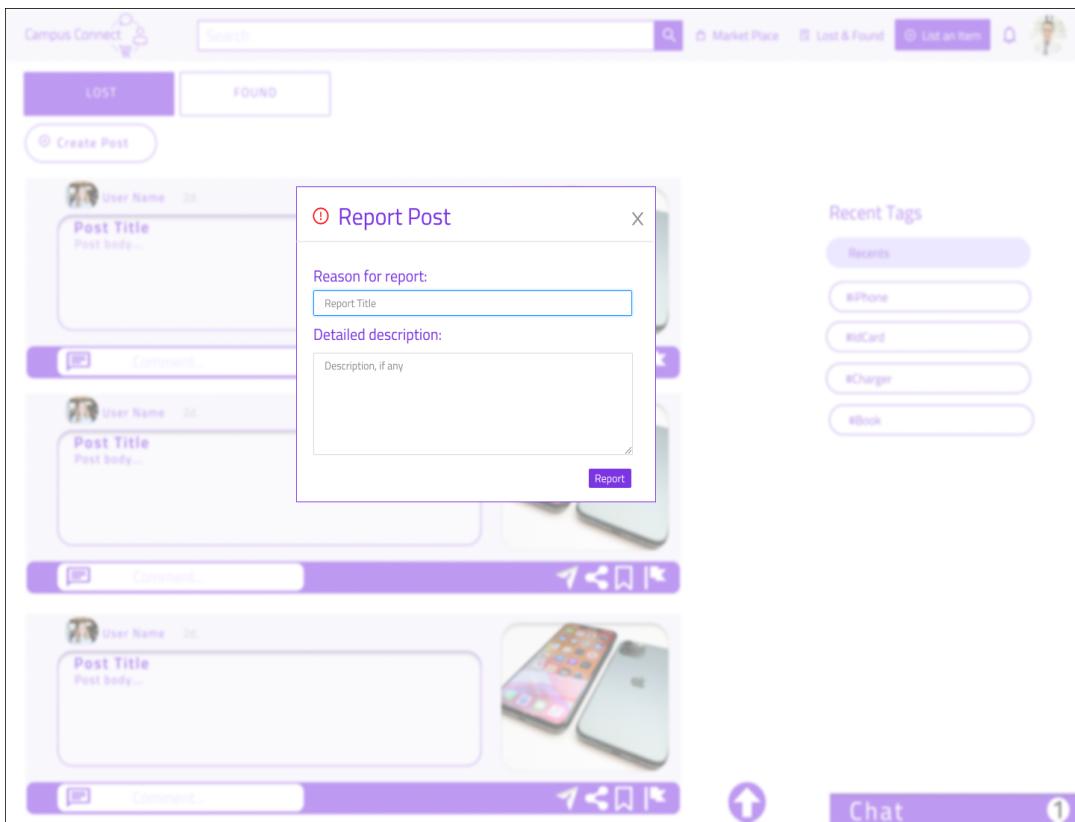
6.2.5 Comment on the Forum Post

The screenshot shows a list of three forum posts. Each post includes a user profile picture, the user's name, the time since posting (e.g., 2d), the post title, a placeholder for the post body, and two images of a smartphone. Below each post is a purple comment bar with a 'Comment...' placeholder and a reply icon. To the right of the posts is a sidebar titled 'Recent Tags' containing a list of recent items: Recents, #iPhone, #IdCard, #Charger, and #Book. A 'Chat' button with a notification count of 1 is also visible.

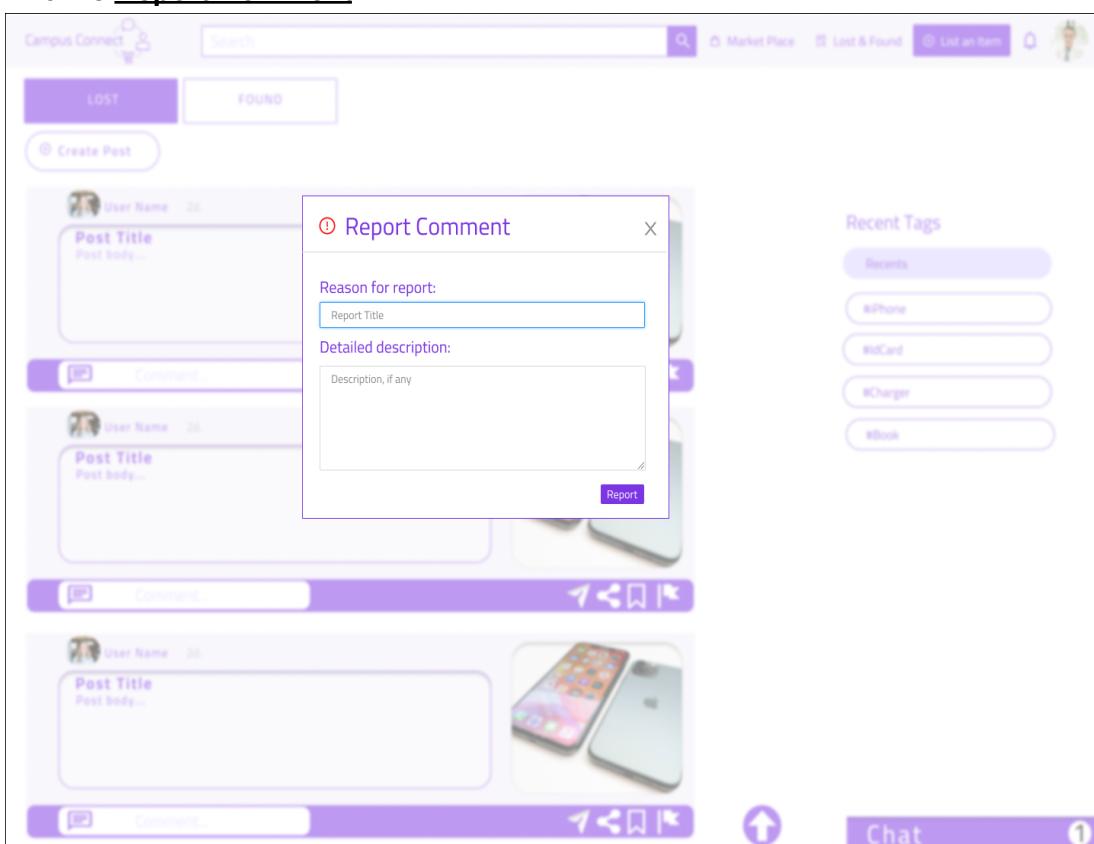
6.2.6 Tag User on Forum Post

The screenshot shows a single forum post by a user named 'User Name' posted 2 days ago. The post title is 'Post Title' and the body contains the text '#iphone11 #BlackiPhone11'. Three images of a black iPhone 11 are shown. Below the post is a purple comment bar with a 'Comment...' placeholder and a reply icon. A conversation is visible below the comment bar:
Abbey: where did you find it?
John: @Abbey near the B building.
Sara: @Carl is this yours?
To the right of the post is a sidebar titled 'Recent Tags' containing a list of recent items: Recents, #iPhone, #IdCard, #Charger, and #Book. A 'Chat' button with a notification count of 1 is also visible.

6.2.7 Report Forum Post



6.2.8 Report Comment



The screenshot shows a product listing for an iPhone 11 Max. The item has 25 reviews, 9 wishlists, and 3 bids. The current bid is TL 13500.00, and the highest bid is TL 13750.00. A reporting modal is open, titled "Report Product". It asks for a reason and a detailed description. The detailed description field contains: "Max, the pinnacle of Apple's well and is now ready to find a new home. With display, three impressive cameras, and A13 Bionic user experience. Whether you're capturing your favorite content, or tackling any task, this". There are "Edit Post" and "Report" buttons at the bottom of the modal. Below the modal, there is a section for "Current Bids" and a "Chat" button.

6.2.10 Report User (Bilkenteer)

The screenshot shows a user profile for "Not Abbey". The profile picture is a woman with blonde hair, and the name "Not Abbey" is displayed. Below the profile, there is a 4/5 Trust Score and the email address not_abbey@bilkent.edu.tr. A "Message" button is also present. To the right, there is a "Products" tab, a reporting modal titled "Report User", and a dropdown menu for reporting reasons. The reporting modal fields are identical to the one in the previous screenshot. The dropdown menu shows "All" selected, with other options like "Purchase" and "Rent" available. The background shows a blurred view of the platform's interface.

6.2.11 View Transaction History (Ongoing Transactions)

The screenshot shows the Campus Connect interface. On the left, there's a profile sidebar for a user named 'Abbey' with a 4/5 trust score and an email address 'abbey@bilkent.edu.tr'. The main area is titled 'Transactions' and shows two ongoing transactions for an iPhone 11 Max. The first transaction is a purchase from a bid of 13750,00 TL. The second transaction is a rental from 25th October 2023 to 29th October 2023. A dropdown menu on the right is set to 'Both' and includes options for Purchase, Rent (In Possession), and Rent (Requested). Navigation tabs at the top include 'Transactions', 'Products', 'Forum Posts', 'Notifications', 'Wishlist', and 'Inbox'.

6.2.12 View Transaction History (Completed)

This screenshot shows the same Campus Connect interface as the previous one, but the dropdown menu in the top right is now set to 'All' and includes 'Purchase' and 'Rent' options. The transaction history shows two completed purchases for an iPhone 11 Max. The first was a purchase at 13750,00 TL on 29th October 2023. The second was a rental from 25th October 2023 to 29th October 2023. The rest of the interface is identical to the previous screenshot, with the 'Completed' tab selected in the transaction history.

6.2.13 Request new Tag

The screenshot shows the Campus Connect platform's 'List Item' interface. At the top, there are navigation links: 'Campus Connect' (with a user icon), 'Search' (with a magnifying glass icon), 'Market Place' (with a shopping cart icon), 'List an Item' (with a plus sign icon), and a user profile icon. Below the header, the main area is titled 'List Item'. It contains fields for 'Product Name' (placeholder: Product Name), 'Description' (placeholder: Product Description), 'Product Type' (radio buttons for Sell or Rent), and 'Price / Rate' (placeholder: Starting price if type is sell, else rent rate per day). A 'Tag' section includes a dropdown menu with 'Add Tag' and a 'Hardware' option selected. A 'REQUEST TAG' button is visible. A central modal window is titled 'Request Tag' and contains a 'Tag Name' input field with 'Input placeholder'. Below it is a descriptive message: 'How does it work? You request a tag for categorizing your product to increase access to your product. However, we reserve the right to decline your request. Please try to generalize the request you wish to be accepted'. At the bottom of the modal are 'Cancel' and 'Request' buttons. To the right of the modal, there is a message: 'Do you not see a tag you want?' followed by a 'REQUEST TAG' button. At the bottom right of the page is a 'Chat' button with a notification count of 1.

6.2.14 Create Product Post (with image upload)

This screenshot shows the 'List Item' page with a product post being created. The interface is identical to the previous one, with fields for Product Name, Description, Product Type (Sell/Rent), and Price / Rate. The 'Tag' section shows 'Hardware' selected in the dropdown. A 'REQUEST TAG' button is present. The main content area includes a 'Save' button with a 'keep post hidden' option, a 'Delete' button, and a 'Post' button. Below these buttons is a 'keeps post hidden' checkbox. A message 'Do you not see a tag you want?' with a 'REQUEST TAG' button is also visible. On the left, there is a placeholder for 'Click or drag product image to upload'. On the right, there are three small images of phones with delete icons and a '3 left' indicator. At the bottom right is a 'Chat' button with a notification count of 1.

6.2.15 Manage Bids

The screenshot shows a product listing for an iPhone 11 Max. The listing includes two images of the phone, its price (TL 13500.00), and the current highest bid (TL 13750.00). A dropdown menu for sorting bids is open, showing options: SORT BY (LATEST) (selected), LATEST, and PRICE (HIGHEST). Below the listing, a section titled "Current Bids" shows three entries, all from a user named Ali, each offering TL 13450.00. A "Chat" button with a notification count of 1 is visible at the bottom right.

6.2.16 Accept bid

The screenshot shows the same iPhone 11 Max listing as above. A modal dialog box titled "Accepting Bid?" is displayed, asking if the user wants to accept the bid from Ali (Offering Price: TL 13450.00). The dialog also states that "All other bids will be declined if continued". At the bottom of the dialog are "Cancel" and "Accept" buttons. The background shows the "Current Bids" section with the same three entries from Ali. A "Chat" button with a notification count of 1 is visible at the bottom right.

6.2.17 Settings New

The screenshot shows the 'Settings' page for a user named Omilana. On the left, there is a circular profile picture of a woman with short hair, identified as Abbey. Below the picture, her name 'Abbey' is displayed in bold, along with a 5-star trust score and a '4 / 5 Trust Score'. On the right, there are input fields for Name (Omilana), Email (smth@smth.com), Phone (+90 5528462987), and Password (*****). Below these fields is a blue 'Edit Profile' button. Further down, there are sections for 'Show Notifications:' and 'Notifications Preference:'. Under 'Show Notifications:', there are checkboxes for 'My Products' (checked), 'My Inbox' (unchecked), 'My Forum Posts' (checked), 'My Wishlists' (unchecked), and 'My Bids' (unchecked). Under 'Notifications Preference:', there are checkboxes for 'Email' (checked) and 'In App' (checked). At the bottom, there is a section for 'Language Preference:' with radio buttons for 'EN' (selected) and 'TR' (unchecked).

6.2.18 Mini Inbox Overlay

The screenshot shows a 'Chat' overlay on the right side of the screen. It has a purple header bar with the word 'Chat' and a small message icon. Below the header, there is a list of notifications from a user named Ahmet Demir. Each notification item consists of a small circular profile picture and the name 'Ahmet Demir' followed by a right-pointing arrow.

- Ahmet Demir >
- Ahmet Demir >
- Ahmet Demir >
- Ahmet Demir >

6.2.19 Bilkenteer Inbox

The screenshot shows the Campus Connect inbox interface. At the top, there's a search bar and navigation links for Market Place, Lost & Found, and List an Item. A user profile picture for Ahmet Demir is visible. The inbox lists several messages from Ahmet Demir, with one message highlighted in purple containing the text: "Hi! Interested in the Basys board. Can you share its condition and included accessories? Also, open to price negotiation?". Below this, another message says "Hello! Board's in great condition, comes with accessories. Price negotiable. What's your offer?". A third message from Ahmet Demir states "Offering 1500TL. Any specific issues to note?", followed by a response: "Thanks for the offer. How about 1700TL? Board has no issues at all. Let me know if you're okay with the price or send 1700TL bid.". The bottom of the screen features a message input field with a camera icon and a send button.

6.2.20 User Forum Post

The screenshot shows the Campus Connect forum post page. At the top, there's a search bar and navigation links for Market Place, Lost & Found, and List an Item. A user profile picture for Not Abbey is visible. The main content area is titled "Forum Posts" and includes tabs for "Products" and "Forum Posts". Below this, there are two tabs: "Lost" and "Found", with "Lost" being selected. A post is shown with the title "Post Title" and the body "Post body...". The post was made "2 day(s) ago". To the right of the post, there's an image of two smartphones. The bottom of the screen features a large, light-colored rectangular area, likely a placeholder for more posts or a sidebar.

6.2.21 Report User

The screenshot shows the Campus Connect user profile page for a user named "Not Abbey". The profile picture is a woman with blonde hair, wearing a blue shirt. Below the picture, the name "Not Abbey" is displayed, followed by a 4-star trust score and the email address "not_abbey@bilkent.edu.tr". A "Message" button is present. At the top right, there is a "Report" button and a dropdown menu for reporting categories: All (selected), All, Purchase, and Rent.

Campus Connect Search Market Place Lost & Found List an Item Report

Products Forum Posts Report

Not Abbey

4 / 5 Trust Score
not_abbey@bilkent.edu.tr

Message

Reason for report:
Report Title

Detailed description:
Description, if any

Report

All All Purchase Rent

6.2.22 User Products

The screenshot shows the Campus Connect user profile page for a user named "Not Abbey". The profile picture is a woman with blonde hair, wearing a blue shirt. Below the picture, the name "Not Abbey" is displayed, followed by a 4-star trust score and the email address "not_abbey@bilkent.edu.tr". A "Message" button is present. At the top right, there is a "Report" button and a dropdown menu for reporting categories: All (selected), All, Purchase, and Rent.

Campus Connect Search Market Place Lost & Found List an Item Report

Products Forum Posts Report

Not Abbey

4 / 5 Trust Score
not_abbey@bilkent.edu.tr

Message

All All Purchase Rent

6.2.23 MarketPlace Home (Search Results)

The screenshot shows the MarketPlace Home page with a search bar containing "basys board". Below the search bar is a navigation menu with categories: Textbooks, Electronics, Kitchenware, Instruments, Bicycles, Games, and Furniture. On the left, there is a sidebar with filters for Rentable, Borrowable, Donations, Purchase, and a search by tags section. The main area displays eight search results for "basys board", each showing a thumbnail image, product name, price, and a star rating.

Image	Product Name	Price	Rating
	Basys 3 Board	2,100 TL	★★★★★
	BASYS 3 FPGA Board	2,100 TL	★★★★★
	Basys 3	2,200 TL	★★★★★
	Basys 3 Board with box	2,500 TL	★★★★★
	Basys 3 Board	2,500 TL	★★★★★
	BASYS 3 FPGA Board	2,500 TL	★★★★★
	Basys 3	2,500 TL	★★★★★
	Basys 3 Board with box	2,500 TL	★★★★★

6.2.24 Delete Product Post

The screenshot shows the "List Item" page for a product named "iPhone 11 Max". The product details include a description, price (13500.00), and product type (Sell). A "Confirm Post Deletion" dialog box is open, stating "The product post will be deleted." There is a "Confirm" button at the bottom of the dialog. The page also features a file upload section for product images, a tag selection dropdown (Hardware), and a "REQUEST TAG" button.

6.2.25 Edit Product Post

The screenshot shows the 'List Item' page for a product named 'iPhone 11 Max'. The product details are as follows:

- Product Name:** iPhone 11 Max
- Description:** Gently used iPhone 11 Pro Max, the pinnacle of Apple's technology. This incredible device has served me well and is now ready to find a new home. With its stunning Super Retina XDR display, three impressive cameras, and A13 Bionic chip, it delivers a top-notch user experience. Whether you're capturing breathtaking photos, streaming your favorite content, or tackling any task, this
- Product Type:** Sell
- Price / Rate:** 13500,00

The page also includes a tag selection dropdown showing 'Hardware', a file upload area with a placeholder 'Click or drag product image to upload', and a preview section showing three images of the phone with a '3 left' indicator.

6.2.26 User Products on Sell

The screenshot shows a user profile for 'Abbey'. The profile includes a circular profile picture, a trust score of 4 / 5, an email address (abbey@bilkent.edu.tr), and a 'Profile Settings' button.

The main content area displays a list of products under the heading 'Products' with 'Sell' selected. One product is listed:

- Digital Design and Architecture** (Textbook)
- Final Bid : 1,300 TL
- Status: Sold

A dropdown menu on the right allows filtering by product status: All, All, Sold, Listed, and Hidden.

6.2.27 User Products on Rent

The screenshot shows a user profile for 'Abbey'. The profile includes a circular profile picture, the name 'Abbey', a 4/5 Trust Score, and the email 'abbey@bilkent.edu.tr'. Below the profile is a 'Profile Settings' button. The main area displays a 'Products' section with a 'Sell' and 'Rent' tab. The 'Rent' tab is selected, showing a product listing for a 'Digital Design and Architecture' textbook. The product image is a blue circuit board labeled 'BASYS3'. The listing details include 'Textbook', 'CS - 223', 'CS - 224', 'Final Bid : 1,300 TL', and 'Status: Rented'. To the right of the products is a dropdown menu for filtering items: 'All', 'All', 'Rented', 'Listed', and 'Hidden'.

6.2.28 User Notifications

The screenshot shows a user profile for 'Abbey'. The profile includes a circular profile picture, the name 'Abbey', a 4/5 Trust Score, and the email 'abbey@bilkent.edu.tr'. Below the profile is a 'Profile Settings' button. The main area displays a 'Notifications' section with a list of five notifications:

- Product Post Suspended by Moderator**
Reason: Inappropriate description
- New Bid for Product "Iphone 13"**
[View Bid](#)
- Product "Epic of Gilgamesh" Marked as sold**
[View Product Post](#)
- Return Deadline in 3 Days!**
Make sure to return "Basy3 Board" by 29th October to the renter.
[View Product Post](#)
- You just bought "Epic of Gilgamesh" from Ali Emre**
Review the seller
[Review Seller](#)

6.2.29 User Subscribed Tags

The screenshot shows the Campus Connect user profile page for a user named Abbey. At the top, there is a navigation bar with links for Market Place, Lost & Found, List an Item, and a user icon. Below the navigation bar, there is a search bar and a sidebar with links for Transactions, Products, Forum Posts, Notifications, Wishlist, Subscribed Tags (which is currently selected), and Inbox.

The main content area displays the user's profile picture, name (Abbey), trust score (4 / 5 Trust Score), email (abbey@bilkent.edu.tr), and a Profile Settings button. To the right, under the heading "Subscribed Tags", there is a list of four tags: CS-223, Basys Board, Used, and CS-223 again. Each tag has a small delete icon next to it.

6.2.30 User Wishlist

The screenshot shows the Campus Connect user profile page for a user named Abbey. At the top, there is a navigation bar with links for Market Place, Lost & Found, List an Item, and a user icon. Below the navigation bar, there is a search bar and a sidebar with links for Transactions, Products, Forum Posts, Notifications, Wishlist (which is currently selected), and Inbox.

The main content area displays the user's profile picture, name (Abbey), trust score (4 / 5 Trust Score), email (abbey@bilkent.edu.tr), and a Profile Settings button. To the right, under the heading "Wishlist", there are three items listed:

- Epic of Gilgamesh - Evolution (Textbook, HUM-111, Humanities) - 600 TL - ★★★★★
- Digital Design and Architecture (Textbook, CS-223, CS-224) - 1,200 TL - ★★★★★
- Basys 3 Board with box (Hardware, CS-224, Basys Board) - 2,500 TL - Sold

6.2.31 User Forum Posts

The screenshot shows a user profile for 'Abbey'. At the top, there's a navigation bar with 'Campus Connect' logo, search bar, and various links like 'Market Place', 'Lost & Found', 'List an Item', and a user icon. Below the navigation is a circular profile picture of a woman named Abbey. Her name is displayed in bold black text below the picture. To her right is a 'Forum Posts' section with tabs for 'Transactions', 'Products', 'Forum Posts' (which is selected and highlighted in purple), 'Notifications', 'Wishlist', and 'Inbox'. Under the 'Forum Posts' tab, there are two buttons: 'Lost' (purple) and 'Found' (white). The main content area is currently empty, showing a light gray background.

6.2.32 Post to Found Forum

The screenshot shows the 'CREATE POST' form for the 'FOUND' category. The top navigation bar is identical to the previous screenshot. The main form has tabs for 'POST' (selected) and 'IMAGE'. It includes fields for 'Title' and 'Post Body...'. On the right, there's a 'Recent Tags' sidebar with a 'Recents' tab and several tags: '#iPhone', '#IdCard', '#Charger', and '#Book'. Below the main form, there's a placeholder for product images with the text 'Click or drag product image to upload'. Two images of a smartphone are shown with delete icons. At the bottom left, there's a dropdown for 'Tag' with options like 'Type Tag', 'Hardware', 'Book', and 'Home Accessories'. A 'Chat' button with a notification count of 1 is at the bottom right.

6.2.33 Post to Lost Forum

The screenshot shows the 'Campus Connect' website interface for the 'Lost & Found' section. At the top, there is a navigation bar with links for 'Market Place', 'Lost & Found', 'List an Item', and a user profile icon. Below the navigation is a search bar and two buttons: 'LOST' and 'FOUND'. The main area is titled 'CREATE POST' and contains fields for 'Title' and 'Post Body...'. There is also a section for uploading images with a placeholder 'Click or drag product image to upload' and three uploaded images of phones. A 'Tag' dropdown menu is open, showing 'Type Tag' selected, with options like 'Hardware', 'Book', and 'Home Accessories'. To the right, a sidebar titled 'Recent Tags' lists '#iPhone', '#IdCard', '#Charger', and '#Book'. At the bottom right, there is a 'Chat' button with a notification count of 1.

6.2.34 Post Confirmation

This screenshot shows the same 'Campus Connect' interface as the previous one, but with a confirmation dialog box overlaid on the 'Post Body...' field. The dialog says 'Confirm Post' and 'The product will be posted.' with a 'Confirm' button. The rest of the interface, including the 'CREATE POST' form, image upload area, and tag dropdown, appears identical to the previous screenshot.

6.2.35 Post Delete Confirmation

The screenshot shows the Campus Connect interface for creating a post. At the top, there's a navigation bar with links for Market Place, Lost & Found, List an Item, and a user profile icon. Below the navigation is a search bar and two main categories: LOST (white background) and FOUND (purple background). The main area is titled "CREATE POST". It includes fields for "Title" and "Post Body...". There's a section for uploading images with a placeholder "Click or drag product image to upload" and three uploaded images of phones. A "Tag" dropdown menu lists "Add Tag", "Hardware", "Book", "Book", and "Home Accessories". On the right, a "Recent Tags" sidebar lists "#Recents", "#iPhone", "#IdCard", "#Charger", and "#Book". A delete confirmation dialog box is overlaid on the page, asking "Are you sure you want to delete this post?" with "No" and "Yes" buttons. A purple "Chat" button with a notification count of 1 is located at the bottom right.

6.2.36 Edit Found Post

This screenshot shows the same Campus Connect interface as the previous one, but with an "Edit" dialog box overlaid. The dialog says "Confirm Edit" and "The product will be posted." with a "Confirm" button. The rest of the interface is identical to the previous screenshot, including the LOST/FOUND categories, "CREATE POST" form, image upload section, tag dropdown, recent tags sidebar, and the purple "Chat" button with a notification count of 1.

6.2.37 Image Limit Exceeded Notification

CREATE POST

POST IMAGE

Title

Post Body...

Invalid Post
Only upto 5 images can be uploaded.

OK

Click or drag product image to upload

Tag : Add Tag Hardware Book

Hardware

Book

Home Accessories

Recent Tags

Recents

#iPhone

#IdCard

#Charger

#Book

Chat 1

6.2.38 Mark Item as Returned (by Renter)

Campus Connect Search Market Place Lost & Found List an Item Chat 1

Abbey

4 / 5 Trust Score

abbey@bilkent.edu.tr

Profile Settings

Transactions Products Forum Posts Notifications

Wishlist Inbox

Products

Sell Rent

iPhone 11 M...

iPhone 11 Max...

CONFIRM RETURN

The product post will be marked as returned

Rate Per Day: Start Date: End Date: Status:

CONFIRM

Returned More Info

All

All

Rented

Listed

Hidden

6.2.39 Return Rented Item

Campus Connect

Transactions Products Forum Posts Notifications

Index

Completed Pending

Transaction Type (0/0/0)

Rent Purchase Rent In Possession Rent Requested

1 Day(s) Left

The product will be marked as returned once the renter confirms

Seller Someone See Product Listing

confirm

6.2.40 Offer Bid for Buying

iPhone 11 Max

₹ 13500.00
₹ 13750.00

Offered Price: ₹ 13,500.00

Place Bid

Place Your Bid

* Offering Price : Input placeholder

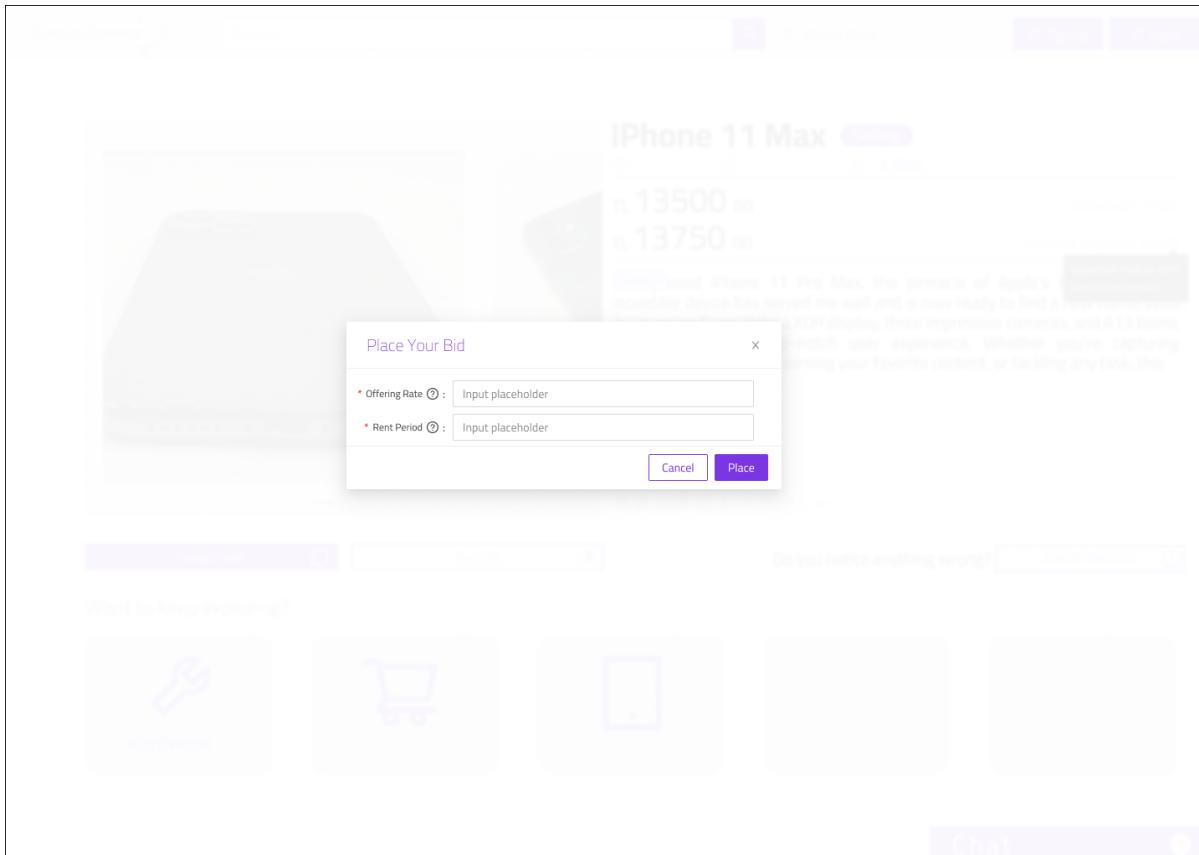
Cancel Place

Want to know anything?

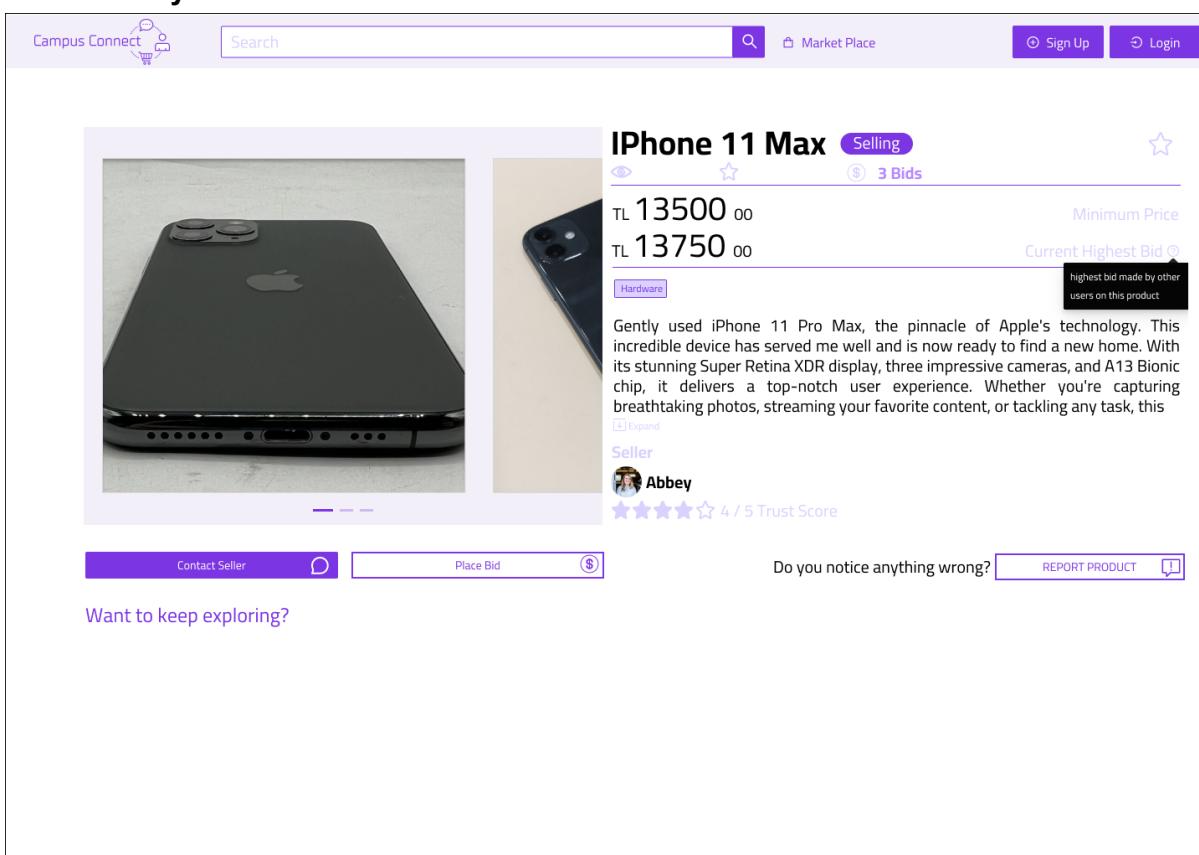
Do you notice anything wrong?

Place Bid

6.2.41 Offer Bid for Renting



6.2.42 Buy Product



6.2.43 Lost Forum

The screenshot shows the 'Lost' forum section of the Campus Connect app. At the top, there are tabs for 'LOST' (highlighted in purple) and 'FOUND'. Below the tabs is a search bar and a 'Create Post' button. On the right side, there are buttons for 'Market Place', 'List an Item', and a user profile icon. A sidebar on the right lists 'Recent Tags' such as 'Recents', '#iPhone', '#IdCard', '#Charger', and '#Book'. The main content area displays three lost item posts, each with a user profile picture, the text 'User Name 2d.', a title field ('Post Title'), a body field ('Post body...'), and a photo of two smartphones. Each post has a 'Comment...' button, a share icon, and a download icon. The third post includes a 'Chat' button with a notification count of 1.

6.2.44 Found Forum

The screenshot shows the 'Found' forum section of the Campus Connect app. At the top, there are tabs for 'LOST' and 'FOUND' (highlighted in purple). Below the tabs is a search bar and a 'Create Post' button. On the right side, there are buttons for 'Market Place', 'List an Item', and a user profile icon. A sidebar on the right lists 'Recent Tags' such as 'Recents', '#iPhone', '#IdCard', '#Charger', and '#Book'. The main content area displays three found item posts, each with a user profile picture, the text 'User Name 2d.', a title field ('Post Title'), a body field ('Post body...'), and a photo of two smartphones. Each post has a 'Comment...' button, a share icon, and a download icon. The third post includes a blue upvote arrow icon and a 'Chat' button with a notification count of 1.

6.2.45 Simple Forum Post

The screenshot shows a user interface for a lost item forum. At the top, there's a navigation bar with 'Campus Connect' and various links like 'Market Place', 'Lost & Found', and 'List an Item'. Below the navigation is a search bar and two buttons: 'LOST' and 'FOUND'. A 'Create Post' button is also visible.

The main area displays a post from a user named 'User Name' (2d ago). The post title is 'Post Title' and includes three images of a black iPhone 11. Below the images is a text input field labeled 'Body' containing the hashtags '#iPhone11 #BlackiPhone11'. A comment section follows, showing interactions between users 'Abbey', 'John', and 'Sara'.

On the right side, there's a sidebar titled 'Recent Tags' with a list of recent items: 'Recents', '#iPhone', '#IdCard', '#Charger', and '#Book'. A 'Chat' button with a notification count of 1 is also present.

6.2.46 Rate User (seller/borrower/renter)

This screenshot shows a rating dialog box overlaid on a user profile page. The profile page features a circular profile picture of a woman named 'Abbey' and some contact information. The rating dialog is titled 'Rate Ali Emre' and asks the user to 'Choose Rating:' with five star options ranging from 5 stars down to 1 star. A 'Submit' button is at the bottom of the dialog.

A message at the bottom of the screen says: 'You just bought "Epic of Gilgamesh" from Ali Emre. Review the seller.'

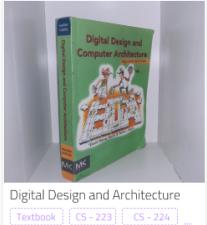
6.2.47 Completed Transactions

Campus Connect  Search  Market Place  Lost & Found  List an Item   
Abbey
4 / 5 Trust Score
abbey@bilkent.edu.tr
Profile Settings

Transactions Products Forum Posts Notifications   

Transactions

Completed  Ongoing 

 Digital Design and Architecture Textbook CS-223 CS-224 ... Final Bid : 1,300 TL Bought at : 29th October 2023 Transaction Type: Purchase	 Digital Design and Architecture Textbook CS-223 CS-224 ... Final Bid : 1,300 TL Bought at : 29th October 2023 Transaction Type: Purchase	 Digital Design and Architecture Textbook CS-223 CS-224 ... Final Bid : 1,300 TL Bought at : 29th October 2023 Transaction Type: Purchase
---	---	---

Transaction Type (All) 
All  

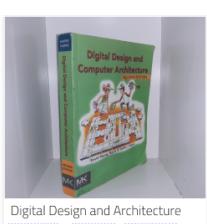
6.2.48 Ongoing Transaction

Campus Connect  Search  Market Place  Lost & Found  List an Item   
Abbey
4 / 5 Trust Score
abbey@bilkent.edu.tr
Profile Settings

Transactions Products Forum Posts Notifications   

Transactions

Completed  Ongoing 

 Digital Design and Architecture Textbook CS-223 CS-224 ... Final Bid : 1,300 TL Bought at : 29th October 2023 Transaction Type: Purchase	 Digital Design and Architecture Textbook CS-223 CS-224 ... Final Bid : 1,300 TL Bought at : 29th October 2023 Transaction Type: Rent
---	---

Transaction Type (BOTH) 
Both   

6.2.49 Details of Completed Transaction

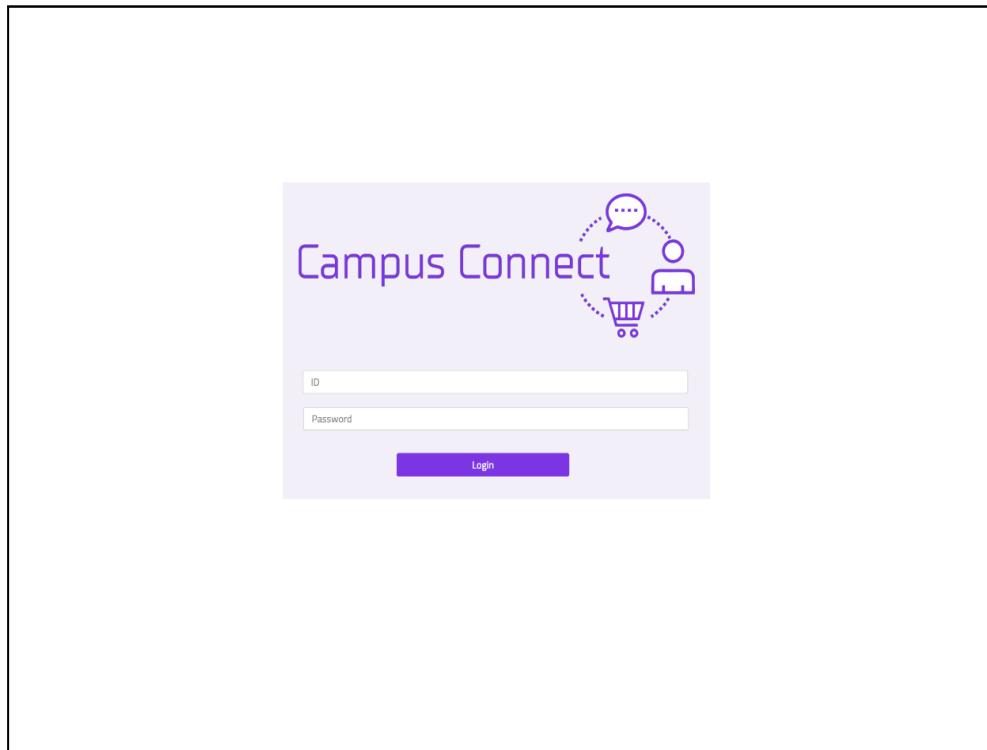
The screenshot shows a user profile for 'Abbey' on the Campus Connect platform. The profile includes a circular profile picture, the name 'Abbey', a 4.7/5 Trust Score, and the email 'abbey@bilkent.edu.tr'. Below the profile is a 'Profile Settings' button. The main area displays a 'Transactions' section with tabs for 'Completed' (selected) and 'Ongoing'. A modal window titled 'Transaction Info' is open, showing details for a purchase of an 'iPhone 11 Max'. The transaction info includes: Name: iPhone 11 Max, Transaction Type: Purchase, Bidding At: 13750,00, Bought At: 29th October 2023, Seller: Someone, and a 'See Product Listing' link. The background shows other transaction cards and a sidebar with navigation links.

6.2.50 Details of Ongoing Transaction

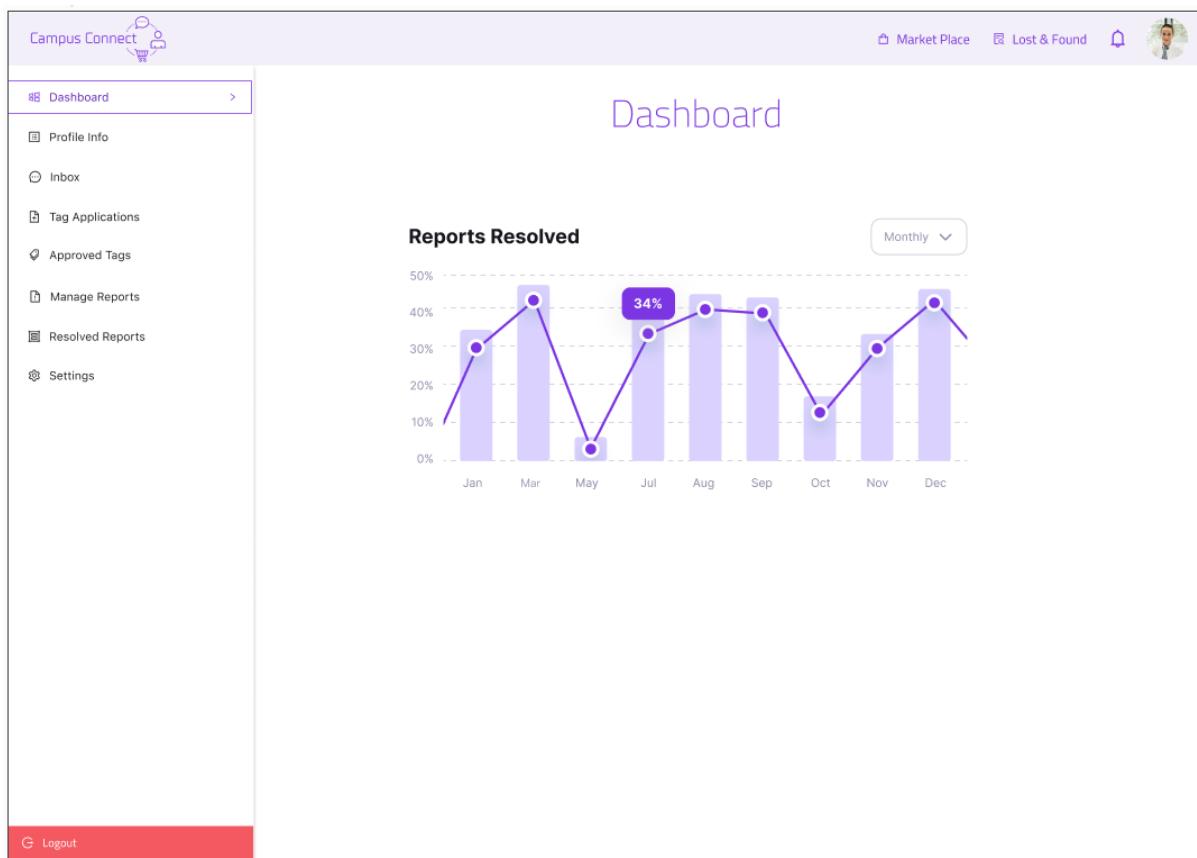
The screenshot shows the same user profile for 'Abbey' on the Campus Connect platform. The profile and transaction section are identical to the previous screenshot, displaying a completed transaction for an iPhone 11 Max. However, the modal window now shows details for a 'Rent' transaction. The transaction info includes: Name: iPhone 11 Max, Transaction Type: Rent, Rent per day: 75,00, Start Date: 25th October 2023, End Date: 29th October 2023, and Seller: Someone. A note at the bottom states: 'The product will be marked as returned once the renter confirms'. The background shows other transaction cards and a sidebar with navigation links.

6.3 Moderator Screens

6.3.1 Moderator login



6.3.2 Homepage



6.3.3 Profile Info

Campus Connect

Market Place Lost & Found Notifications

Profile

Moderator ID : 35301

First Name : A

Middle Name :

Last Name : O

Email : a@smth.com

Phone : +90 5528462987

Password :

Abbey

Update Photo

Edit Profile

Logout

The screenshot shows the 'Profile' section of the Campus Connect application. It displays a user's profile information including Moderator ID (35301), First Name (A), Middle Name (empty), Last Name (O), Email (a@smth.com), Phone number (+90 5528462987), and Password (hidden). The user's name is Abbey, and there is a circular profile picture. A 'Logout' button is at the bottom.

6.3.4 Inbox

Campus Connect

Market Place Lost & Found Notifications

Inbox

Ahmet Demir

Hil Interested in the Basys board. Can you share its condition and included accessories? Also, open to price negotiation?

3:15 PM

Hello! Board's in great condition, comes with accessories. Price negotiable. What's your offer?

3:37 PM

Offering 1500TL. Any specific issues to note?

3:45 PM

Thanks for the offer. How about 1700TL? Board has no issues at all. Let me know if you're okay with the price or send 1700TL bid.

4:12 PM

Search User

Ahmet Demir (3 messages)

Type Your Message ...

The screenshot shows the 'Inbox' section of the Campus Connect application. It displays a conversation with a user named Ahmet Demir. The messages are as follows:
1. Hil Interested in the Basys board. Can you share its condition and included accessories? Also, open to price negotiation?
2. Hello! Board's in great condition, comes with accessories. Price negotiable. What's your offer?
3. Offering 1500TL. Any specific issues to note?
4. Thanks for the offer. How about 1700TL? Board has no issues at all. Let me know if you're okay with the price or send 1700TL bid.
The inbox also includes a search bar and a message input field.

6.3.5 Tag Applications

The screenshot shows the 'Tag Applications' section of the Campus Connect application. The left sidebar includes links for Dashboard, Profile Info, Inbox, Tag Applications (selected), Approved Tags, Manage Reports, Resolved Reports, and Settings. The main content area has a title 'Tag Applications' and a sub-section 'Create New Tag'. Below this is a table with columns: Tag ID, Tag, User Name, User Rating, and Actions (checkmark and trash can icons). Two sections of data are shown: 'For books related to HUM 111 Course' containing entries 4 through 6, and another section containing entries 1 through 3. A navigation bar at the bottom shows pages 1 through 5.

Tag ID	Tag	User Name	User Rating	Actions
1	Repaired	Mehmet	5	
2	Torn	Elif Demir	4.2	
3	HUM-111	Ali Emir	4.3	
4	Print Out	Deniz	3.1	
5	Gilgamesh	Burak Alp	4.8	
6	Best Rated	Elif Onar	3.3	

6.3.6 Approved Tags

The screenshot shows the 'Approved Tags' section of the Campus Connect application. The left sidebar includes links for Dashboard, Profile Info, Inbox, Tag Applications (selected), Approved Tags, Manage Reports, Resolved Reports, and Settings. The main content area has a title 'Approved Tags' and a table with columns: Tag ID, Tag, Approved Date, Approver ID, Approver Name, and Active status (indicated by a toggle switch). The table lists six entries, all of which have the active status turned on. A navigation bar at the bottom shows pages 1 through 5.

Tag ID	Tag	Approved Date	Approver ID	Approver Name	Active
1	Basys Board	26-10-2023	8	Berk Demir	
2	Basys Board	26-10-2023	8	Berk Demir	
3	Basys Board	26-10-2023	8	Berk Demir	
4	Basys Board	26-10-2023	8	Berk Demir	
5	Basys Board	26-10-2023	8	Berk Demir	
6	Basys Board	26-10-2023	8	Berk Demir	

6.3.7 Reports List

The screenshot shows the 'Manage Reports' page. On the left is a sidebar with links: Dashboard, Profile Info, Inbox, Tag Applications, Approved Tags, Manage Reports (which is selected and highlighted in blue), Resolved Reports, and Settings. At the bottom of the sidebar is a red 'Logout' button. The main area has a title 'Manage Reports' and a table with the following data:

Report ID	Report Title	Created Date	User ID	Username	Actions
1	Wrong Information	26-10-2023	8	Berk Demir	
2	Spam	26-10-2023	8	Berk Demir	
3	Misconduct	26-10-2023	8	Berk Demir	
4	Misconduct	26-10-2023	8	Berk Demir	
5	Wrong posting	26-10-2023	8	Berk Demir	
6	Software Bug	26-10-2023	8	Berk Demir	

Below the table is a navigation bar with buttons for <, 1, 2, 3, 4, 5, and >.

6.3.8 View Single Report

The screenshot shows the 'View Report' page. On the left is a sidebar with links: Dashboard, Profile Info, Inbox, Tag Applications, Approved Tags, Manage Reports (selected and highlighted in blue), Resolved Reports, and Settings. At the bottom of the sidebar is a red 'Logout' button. The main area has a title 'View Report' and a form with the following fields:

Title :	Inappropriate Comment
Description :	This comment is inappropriate and is spam.
Reporting User ID :	3
Reporting Username :	Musa Emir
Created Date :	23-10-2023
Reported Entity ID :	5

Below the form is a user profile section for 'Han Solo' with a bio: 'Follow me on facebook, instagram and twitter for better deals.' There are buttons for 'Visit Page', 'Reply to', and 'Report'. At the bottom is a 'Moderator Feedback' text area with a placeholder 'Add feedback' and a 'Mark as Resolved' button.

6.3.9 Suspend Bilkenteer

The screenshot shows the Campus Connect Market Place interface. At the top, there is a navigation bar with links for 'Market Place', 'Lost & Found', 'List an Item', and a user profile icon. Below the navigation bar, there is a search bar and a purple header bar with tabs for 'Products' and 'Forum Posts'. On the left side, there is a profile section for a user named 'Not Abbey' (4 / 5 Trust Score) with an email address 'not_abbey@bilkent.edu.tr' and a 'Message' button. In the center, there is a 'Products' section displaying three items: a Basys 3 Board, an iPhone XS, and a book titled 'Epic of Gilgamesh - Evolution'. A dropdown menu is open over the book item, showing options: 'All' (selected), 'All', 'Rent', and 'Purchase'. The products are listed with their names, categories, prices, and star ratings.

6.3.10 Unsuspend Bilkenteer

The screenshot shows the Campus Connect Market Place interface, similar to the previous one but with a green 'Unsuspend' button instead of a red 'Suspend' button in the top right corner. The rest of the interface, including the profile section for 'Not Abbey', the product listing, and the dropdown menu over the book item, remains identical to the previous screenshot.

6.3.11 Suspend Post

Campus Connect

Search

Market Place

Sign Up Login

iPhone 11 Max Selling

TL 13500 00 Minimum Price

TL 13750 00 Current Highest Bid

highest bid made by other users on this product

Hardware

Gently used iPhone 11 Pro Max, the pinnacle of Apple's technology. This incredible device has served me well and is now ready to find a new home. With its stunning Super Retina XDR display, three impressive cameras, and A13 Bionic chip, it delivers a top-notch user experience. Whether you're capturing breathtaking photos, streaming your favorite content, or tackling any task, this

[Expand]

Seller

Abbey

4 / 5 Trust Score

Contact Seller

Want to keep exploring?

Textbooks Electronics Kitchenware Bicycles Instruments Games Furniture

6.3.12 Unsuspend User

Campus Connect

Search

Market Place

Sign Up Login

iPhone 11 Max Selling

TL 13500 00 Minimum Price

TL 13750 00 Current Highest Bid

highest bid made by other users on this product

Hardware

Gently used iPhone 11 Pro Max, the pinnacle of Apple's technology. This incredible device has served me well and is now ready to find a new home. With its stunning Super Retina XDR display, three impressive cameras, and A13 Bionic chip, it delivers a top-notch user experience. Whether you're capturing breathtaking photos, streaming your favorite content, or tackling any task, this

[Expand]

Seller

Abbey

4 / 5 Trust Score

Contact Seller

Want to keep exploring?

Textbooks Electronics Kitchenware Bicycles Instruments Games Furniture

6.3.13 Moderator View of Post

The screenshot shows the 'LOST' section of the moderator interface. A post titled 'User Name 2d.' is displayed, featuring three images of a black iPhone 11. The post includes the hashtags #iPhone11 and #BlackiPhone11. Below the post, there is a comment from user 'Abbey' asking where it was found, and two other users, 'John' and 'Sara', responding. On the right side, there is a sidebar titled 'Recent Tags' with options like 'Recents', '#iPhone', '#IdCard', '#Charger', and '#Book'. A 'Create Post' button is also visible.

6.3.14 Resolved Reports

The screenshot shows the 'Resolved Reports' section of the moderator interface. A sidebar on the left lists navigation items: Dashboard, Profile Info, Inbox, Tag Applications, Approved Tags, Manage Reports, and Resolved Reports (which is currently selected). The main area displays a table of resolved reports with columns: Report ID, Report Title, Created Date, Resolver ID, Resolver Name, Resolved Date, and Actions. Six reports are listed, all resolved by 'Berk Emir' on 26-10-2023. The table includes icons for edit and delete. At the bottom, there is a pagination control showing page 1 of 5.

Report ID	Report Title	Created Date	Resolver ID	Resolver Name	Resolved Date	Actions
1	Spam	26-10-2023	1	Berk Emir	26-10-2023	
2	Spam	26-10-2023	2	Berk Emir	26-10-2023	
3	Misconduct	26-10-2023	3	Berk Emir	26-10-2023	
4	Misconduct	26-10-2023	4	Berk Emir	26-10-2023	
5	Wrong posting	26-10-2023	5	Berk Emir	26-10-2023	
6	Software Bug	26-10-2023	6	Berk Emir	26-10-2023	

6.3.15 Settings

The screenshot shows the 'Settings' page of the Campus Connect application. At the top right, there are links for 'Market Place', 'Lost & Found', and a user profile icon. On the left, a sidebar menu includes 'Dashboard', 'Profile Info', 'Inbox', 'Tag Applications', 'Approved Tags', 'Manage Reports', 'Resolved Reports', and 'Settings'. The 'Settings' item is highlighted with a purple border. The main content area is titled 'Settings' and contains three sections: 'Show Notifications:', 'Notifications Preference:', and 'Language Preference:'. In the 'Show Notifications:' section, 'My Products' and 'My Forum Posts' are checked. In the 'Notifications Preference:' section, both 'Email' and 'In App' are checked. In the 'Language Preference:' section, 'EN' is selected. A red 'Logout' button is located at the bottom left of the main content area.

Market Place Lost & Found

Campus Connect

Dashboard Profile Info Inbox Tag Applications Approved Tags Manage Reports Resolved Reports **Settings** >

Settings

Show Notifications:

My Products
 My Inbox
 My Forum Posts
 My Wishlists
 My Bids

Notifications Preference:

Email
 In App

Language Preference:

EN
 TR

Logout