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**ID:** UC1

**Name:** Offer a tool

**Initiator:** Owner

**Goal:** creating a post for a tool.

**Precondition:**

1. The owner must be logged in and provided his/her ID number.
2. The owner must have provided his/her credit card details.

**Postcondition:** A post will be created where others can request to rent the tool.

**Main success scenario:**

1. The owner requests to create a new post.
2. The system insures if the owner is authorized for posting (provided ID number and credit card).
3. The owner enters the post details.
4. The owner presses the confirm button.
5. The system ensures that all inputs are valid.
6. The system creates a post in the database.
7. The system directs the owner to the post page.

**Extensions:**

* + 1. The owner isn’t authorized to post.
    2. The request will be denied.
    3. The system displays a prompt for the user.
    4. Some fields are not valid.
    5. The request will not be created.
    6. The system will inform the user of the invalid values.
    7. Continue at step 3.

**ID:** UC2 - A

**Name:** Edit tool post.

**Initiator:** Owner.

**Goal:** Editing a post of a tool.

**Precondition:**

1. The post must exist.
2. The owner must be authorized to edit the post.

**Postcondition:** The tool’s post will be changed as the owner specifies.

**Main success scenario:**

1. The owner requests to edit a post.
2. The system ensures the owner is authorized to edit the post.
3. The owner edits the desired post details.
4. The owner confirms the changes.
5. The system ensures that all inputs are valid.
6. The system changes the post details in the database.

**Extensions:**

* + 1. The owner isn’t authorized to edit the post.
    2. The request will be denied.
    3. The system displays a prompt for the owner.
    4. Some fields are not valid.
    5. The request will not be created.
    6. The system will inform the user of the invalid values.
    7. Continue at step 3.

**ID:** UC2 - B

**Name:** Remove tool post

**Initiator:** Owner

**Goal:** Deleting a post of a tool.

**Precondition:**

1. The post must exist.
2. The owner must be authorized to remove the post.

**Postcondition:** The post will be deleted and removed from the database. And users won’t be able to access it anymore.

**Main success scenario:**

1. The owner requests to remove a post.
2. The system ensures the owner is authorized to remove the post.
3. The owner confirms that (s)he wants to delete the post.
4. The system deletes any requests to the post.
5. The system deletes the post from the database.

**Extensions:**

* + 1. The owner isn’t authorized to post.
    2. The request will be denied.
    3. The system displays a prompt for the owner.

**ID:** UC3

**Name:** Accept request

**Initiator:** Owner

**Goal:** Accepting a renter’s request to rent the owner’s tool.

**Precondition:**

1. A request must have been sent from a renter on a post.
2. The owner must be authorized to accept/reject requests for the post

**Postcondition:** The request will be accepted, a chat room will open for the owner and renter, and the tool will be marked as unavailable.

**Main success scenario:**

1. The owner requests to see the requests for the post.
2. The system ensures the owner is authorized to view and accept requests for the post.
3. The owner accepts the renter’s request.
4. The system marks the tool as ‘Unavailable’
5. The system opens a chat room between the renter and owner.
6. The system sends a notification for the renter.

**Extensions:**

* + 1. The owner isn’t authorized.
    2. The request will be denied.
    3. The system displays a prompt for the owner.
    4. The owner rejects the renter’s request.
    5. The system deletes the request.
    6. Continue at step 3.

**ID:** UC4

**Name:** Deliver tool

**Initiator:** Owner

**Goal:** Handing over the tool to the renter, and starting the rent period.

**Precondition:**

1. The owner and renter agreed to meet at a place.

**Postcondition:** the renter will get the tool and the rent starts.

**Main success scenario:**

1. The owner and renter confirm their arrival to the meeting place and that they met.
2. The owner and renter take pictures and/or videos to document the state of the tool before the hand-over.
3. The owner and renter upload the pictures and/or videos to the system.
4. The owner and renter confirm the pictures and/or videos.
5. The system gives the owner the renter’s ID number, and gives the renter the owner’s ID number.
6. The owner and renter ask for each other’s ID and confirm they match the system’s.
7. The owner gives the tool to the renter.
8. The owner and renter confirm the hand-over.
9. The system deducts the insurance-price and the intended rent from the renter’s credit card.
10. The system pays the owner the rent-price.
11. The system updates the database and sets the rent start time.

**Extensions:**

* + 1. Either the owner or renter didn’t confirm arrival and meeting
    2. The delivery will not continue.
    3. Either the owner or renter doesn’t agree on the pictures and/or videos.
    4. The owner and renter try again and go back to step 2.
    5. If they didn’t agree: the owner/renter cancels the delivery and tool-request.
    6. The system deletes the tool-request.
    7. The tool is marked as available.
    8. The owner or renter refuse to give their IDs.
    9. The owner or renter cancels the delivery and tool-request.
    10. The system deletes the tool-request.
    11. The tool is marked as available.
    12. The owner/renter doesn’t confirm the hand-over.
    13. The owner/renter cancels the delivery and tool-request.
    14. The system deletes the tool-request.
    15. The tool is marked as available.

**ID:** UC5

**Name:** Request tool

**Initiator:** Renter

**Goal:** Sending a request to rent a tool on a certain post.

**Precondition:**

1. The renter must be logged in and provided his/her ID number.
2. The renter must have provided his/her credit card details.
3. The renter must not have a previous request for the tool (i.e., renter can only have one request to a tool).

**Postcondition:** a request will be sent to the owner on the tool post, where the owner could decide to accept or reject it.

**Main success scenario:**

1. The renter requests to send a *request* to a post.
2. The system ensures the renter is authorized for requesting (provided a valid credit card details).
3. The system ensures the renter doesn’t have a previous request on the post.
4. The renter enters the request details.
5. The renter confirms the request.
6. The system ensures all inputs are valid.
7. The system updates the database and adds the request.
8. The system sends a notification for the owner.

**Extensions:**

* + 1. The renter isn’t authorized (didn’t provide a valid credit card details).
    2. The request will be denied.
    3. The system displays a prompt for the renter.
    4. The system directs the user to a screen to enter his/her credit card details.
    5. The renter has a previous request on the post.
    6. The request will be denied.
    7. The renter will be redirected to the previous page.
    8. Some fields are not valid.
    9. The tool-request will not be created.
    10. The system will inform the renter of the invalid values.
    11. Continue at step 4.

**ID:** UC6-A

**Name:** Edit a request

**Initiator:** Renter

**Goal:** Editing the details of a request.

**Precondition:** The renter must be authorized to edit the request.

**Postcondition:** The request details will be changed as the renter specifies.

**Main success scenario:**

1. The renter requests to edit a *request*.
2. The system ensures the renter is authorized to edit the request.
3. The renter enters the changes (s)he desires.
4. The renter confirms the changes.
5. The system ensures all inputs are valid.
6. The system updates the request in the database.

**Extensions:**

* + 1. The renter isn’t authorized.
    2. The request will be denied.
    3. The system displays a prompt for the renter.
    4. Some fields are not valid.
    5. The edit will be denied.
    6. The system will inform the renter of the invalid values.
    7. Continue at step 3.

**ID:** UC6-B

**Name:** Remove a request

**Initiator:** Renter

**Goal:** Removing (canceling) a request.

**Precondition:** The renter must be authorized to remove the request.

**Postcondition:** The request will be removed from the database, and becomes unavailable to the owner.

**Main success scenario:**

1. The renter requests to remove a *request*.
2. The system ensures the renter is authorized to remove the request.
3. The renter confirms the decision.
4. The system removes the request from the database.

**Extensions:**

* + 1. The renter isn’t authorized.
    2. The request will be denied.
    3. The system displays a prompt for the renter.

**ID:** UC7

**Name:** Return a tool

**Initiator:** Renter

**Goal:** Handing back the tool to the owner

**Precondition:**

1. The owner and renter agreed to meet at a place.

**Postcondition:** The tool is back with the owner and it’s marked as available.

**Main success scenario:**

1. The owner and renter confirm their arrival to the meeting place.
2. The owner confirms the state of the tool is unchanged.
3. The renter returns the tool.
4. The system calculates the remaining of the insurance money.
5. The system returns the remaining of insurance money to the renter.
6. The system sends the deducted money to the owner
7. The system ends the rent.
8. The system marks the tool as available and updates the database.

**Extensions:**

* + 1. The owner or renter doesn’t confirm arrival and meeting.
    2. If the rent period has ended, the user has 1 day to deliver the tool to the authorities and asks for a paper to confirm the delivery.
    3. The renter uploads the paper.
    4. The admin reviews the paper and confirm it.
    5. The system sends a notification for the owner of the tool position.
    6. If the renter didn’t deliver the tool each day’s rent will be deducted from the insurance money until the renter returns the tool or until the insurance money is all deducted.
    7. The owner claims the tool is damaged.
    8. The renter admits it
    9. The renter and owner agree on a compensation price.
    10. Continue at step 5.
    11. The owner claims the tool is damaged.
    12. The renter refuses the claims.
    13. The owner and renter take pictures and/or videos to show the state of the tool.
    14. The owner and renter upload their pictures and/or videos to the system.
    15. The system creates a disagreement case.
    16. The admin reviews the case and arrives to a decision.
    17. The system sends a notification to the renter and owner informing them of the decision.
    18. If the tool is indeed damaged, continue at step 2.1.3
    19. If it’s not damaged, the owner and renter agree on another meeting.
    20. Continue at step 1 and skip step 2.

**ID:** UC8 - A

**Name:** Create an account using an email address.

**Initiator:** User

**Goal:** Creates an account for the user to log into.

**Precondition:**

1. The user must have an email address.
2. The user must have an ID number.
3. The email address and ID number must not be on the banned-list.

**Postcondition:** an account is created for the user to log into, where (s)he can rent or offer tools.

**Main success scenario:**

1. The user requests to create a new account.
2. The user enters the name, email address, ID number, and the password.
3. The system ensures all inputs are valid.
4. The system ensures the user isn’t on the banned-list.
5. The system creates a new user account with the provided details.
6. The user can optionally enter his/her credit card details to be saved to his account.

**Extensions:**

* + 1. Some fields are not valid.
    2. The request will be denied.
    3. The system will inform the renter of the invalid values.
    4. Continue at step 2.
    5. The user is on the banned list.
    6. The request will be denied and the account will not be created.
    7. The system will display a prompt for the user.
    8. The system will redirect the user to the homepage.

**ID:** UC8 - B

**Name:** Create an account using Google, Facebook, Microsoft, or Apple account.

**Initiator:** User

**Goal:** Creates an account for the user to log into.

**Precondition:**

1. The user must have a Google, Facebook, Microsoft, or Apple account.
2. The user must have an ID number.
3. The email address and ID number must not be on the banned-list.

**Postcondition:** an account is created for the user to log into, where (s)he can rent or offer tools.

**Main success scenario:**

1. The user requests to create a new account.
2. The user signs in using one of the sign-in buttons for Google, Facebook, Microsoft, and Apple.
3. The user logs in the selected account.
4. The user enters the ID number.
5. The system ensures the user isn’t on the banned-list.
6. The system creates a new user account with the provided details.
7. The user can optionally enter his/her credit card details to be saved to his account.

**Extensions:**

* + 1. The user is on the banned list.
    2. The request will be denied and the account will not be created.
    3. The system will display a prompt for the user.
    4. The system will redirect the user to the homepage.

**ID:** UC9 - A

**Name:** Log into account using an email address.

**Initiator:** User

**Goal:** Log the user into his/her account where (s)he can offer and/or rent tools.

**Precondition:**

1. The user must have previously created an account.
2. The user account must not be banned.

**Postcondition:** the user is logged into his/her account, and (s)he can start renting or offering tools.

**Main success scenario:**

1. The user requests to log into his/her account.
2. The system asks for the email-address and the password.
3. The user enters the email-address and the password.
4. The system checks if the email-address and the password are correct.
5. The system ensures the user is not banned.
6. The system logs the user into the account.

**Extensions:**

* + 1. the email-address and the password are not correct.
    2. The user will not be logged in.
    3. The system will inform the renter.
    4. Continue at step 2.
    5. The user is on the banned list.
    6. The request will be denied and the user will not be logged in.
    7. The system will display a prompt for the user.
    8. The system will redirect the user to the homepage.

**ID:** UC9 - B

**Name:** Log into account using Google, Facebook, Microsoft, or Apple account.

**Initiator:** User

**Goal:** Log the user into his/her account where (s)he can offer and/or rent tools.

**Precondition:**

1. The user must have previously created an account.
2. The user account must not be banned.

**Postcondition:** the user is logged into his/her account, and (s)he can start renting or offering tools.

**Main success scenario:**

1. The user requests to log into his/her account.
2. The user logs in using one of the sign-in buttons for Google, Facebook, Microsoft, and Apple.
3. The user logs in the selected account.
4. The system ensures the user is not banned.
5. The system logs the user into the account.

**Extensions:**

* + 1. The user is on the banned list.
    2. The request will be denied and the account will not be created.
    3. The system will display a prompt for the user.
    4. The system will redirect the user to the homepage.

**ID:** UC10 - A

**Name:** Add/edit user rating.

**Initiator:** Rating-user

**Goal:** Adds or edit a review of a rated-user.

**Precondition:**

1. The rating-user and rated-user must have a previous transaction to create a new review.
2. The rating-user must be authorized to edit the review.

**Postcondition:** Adds/edits a review to the rating of the rated-user.

**Main success scenario:**

1. The rating-user requests to rate the rated-user.
2. The system ensures the precondition.
3. The rating-user enters the details.
4. The rating-user confirms the changes.
5. The system ensures all inputs are valid.
6. The system creates/edits the review.

**Extensions:**

* + 1. The rating-user and rated-user didn’t have a previous transaction or the rating-user is not authorized to edit the review.
    2. The request will be denied.
    3. The system displays a prompt for the renter.
    4. Some fields are not valid.
    5. The request will be denied and the review won’t be created.
    6. The system will inform the renter of the invalid values.
    7. Continue at step 3.

**ID:** UC10 - B

**Name:** Remove user rating.

**Initiator:** Rating-user

**Goal:** Deletes the rating-user’s review of the rated-user.

**Precondition:** The Rating-user must be authorized to delete the review.

**Postcondition:** The rating-user’s review of the rated-user will be deleted, and rated-user rating will be updated.

**Main success scenario:**

1. The rating-user asks for the review to be deleted.
2. The rating-user confirms his/her choice.
3. The system ensures the precondition.
4. The system deletes the review.
5. The system updates the rated-user rating.

**Extensions:**

* + 1. The rating-user isn’t authorized.
    2. The request will be denied.
    3. The system displays a prompt for the renter.

**ID:** UC11

**Name:** Ban user

**Initiator:** Admin

**Goal:** Permanently ban a user from the platform.

**Precondition:**

**Postcondition:** the user will be permanently banned from the platform, using their email address, and ID number if provided.

**Main success scenario:**

1. The admin requests to ban a user.
2. The admin enters the ban details.
3. The admin confirms his/her decision.
4. The system will add the user email-address and ID number (if provided), to the banned-list.

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