User Flow for Taskfinity

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1. User Registration and Login

- **Task Posters and Workers**:
  - Users sign up or log in using their credentials (email/password, social login, or wallet-based login).
  - Multi-factor authentication (MFA) for secure access.
- **Flow**:
  - Input login credentials → User Authentication → Redirect to dashboard based on role (Task Poster/Worker).

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2. Task Posting

- **Flow for Task Posters**:
  1. Navigate to the "Post a Task" section.
  2. Fill out task details:
     - Title, description, budget, and deadline.
     - Optional: Attach files or resources.
  3. Choose additional options (if needed):
     - **Priority Listing**: Pay a fee to boost task visibility.
     - **Milestone Payments**: Set milestones with partial payouts.
  4. Submit the task.
  - Backend processes the task and stores it on the blockchain.
- **Next Step**: Task appears in the dashboard for workers to view and bid.

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3. Task Bidding

- **Flow for Workers**:
  1. Browse available tasks via the task marketplace.
  2. Review task details and requirements.
  3. Submit a bid:
     - Proposed cost and timeline.
     - Optional: Add a custom note to the task poster.
  4. Submit bid → Backend stores bid data securely on the blockchain.
- **Flow for Task Posters**:
  1. View received bids for each task on the dashboard.
  2. Compare bids and worker profiles (reputation, ratings, and history).
  3. Select the winning bid.
  4. Funds for the task are escrowed.

4. Task Execution

- **Flow for Workers**:
  1. Start working on the assigned task.
  2. Regularly update task status and communicate with the task poster via the platform.
  3. Submit completed work for verification.

5. Task Verification

- **Flow for Task Posters**:
  1. Review the submitted task.
  2. Approve or request revisions.
- **Verification Options**:
  - **Manual**: Task poster manually verifies completion.
  - **Automated (Optional)**: AI systems verify specific tasks.
- **If disputes arise**:
  - Escalate to the **Dispute Resolution System** for arbitration.

6. Payment Processing

- **Escrow Release**:
  - Once the task is verified, funds held in escrow are released to the worker.
  - Workers receive payments in **ICP tokens** or other supported cryptocurrencies.
- **Monetization Deductions**:
  - **Platform fees** are deducted before payment to workers.

7. Reviews and Ratings

- **Flow**:
  - Task Posters and Workers rate each other based on their experience.
  - Reviews contribute to user reputation and affect future bid acceptance.

8. Monetization and Subscription

- **Monetization Flow**:

- Task Posters: Pay fees for priority listings or milestone payment setups.
- Workers: Subscription plans for advanced bidding analytics and exclusive tasks.

Summary of Flows by Roles:

Task Posters:

1. Register/Login → Post Task → Compare Bids → Select Bidder → Verify Task → Approve Payment → Rate Worker.

Workers:

1. Register/Login → Browse Tasks → Place Bids → Work on Task → Submit for Verification → Receive Payment → Rate Poster.