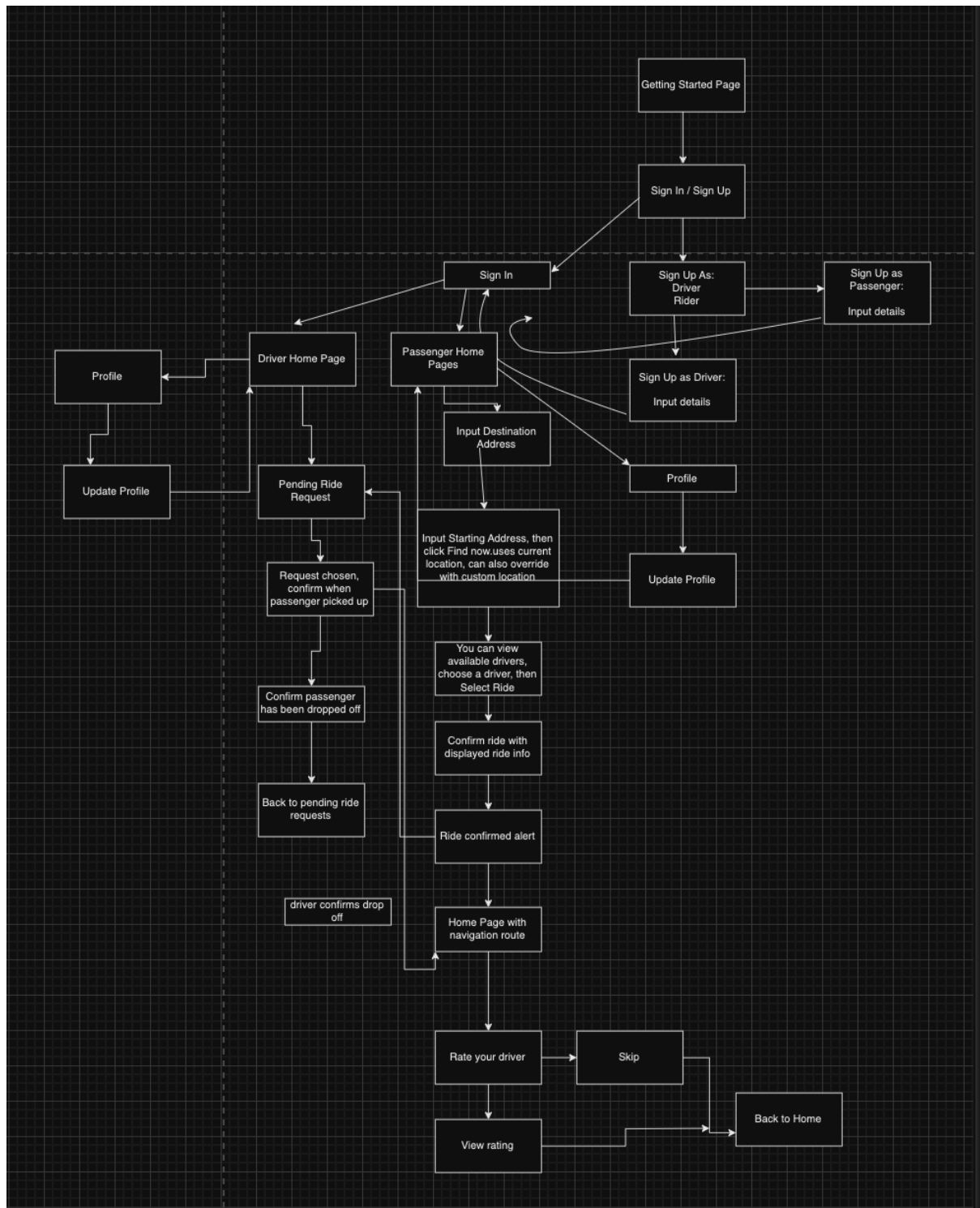Network Diagram:

Tasks

1. Getting Started Page
2. Sign In / Sign Up
3. Profile Management

4. Home Page
5. Input Destination Address
6. Calculate Fare
7. Create Ride Request
8. View Ride Requests
9. Accept Ride Request
10. Driver ETA
11. Confirm Pickup
12. Confirm Dropoff
13. Rate Driver
14. Delay Notifications
15. Pending Requests

Dependencies

- Task 1 → Task 2: User cannot sign in/sign up without accessing the getting started page.
- Task 2 → Task 3: Users must sign in before managing profiles.
- Task 2 → Task 4: Sign-in allows access to the home page.
- Task 4 → Task 5: Home page navigation allows destination input.
- Task 5 → Task 6: Destination is required to calculate fare.
- Task 6 → Task 7: Fare calculation is needed to create a ride request.
- Task 7 → Task 8: Ride requests must exist for drivers to view them.
- Task 8 → Task 9: Drivers can only accept existing requests.
- Task 9 → Task 10: Ride acceptance shows the driver's ETA.
- Task 10 → Task 11: Driver ETA leads to confirming passenger pickup.
- Task 11 → Task 12: Pickup confirmation leads to ride completion.
- Task 12 → Task 13: Ride completion enables the rating system.
- Task 10 → Task 14: Driver ETA helps trigger delay notifications.
- Task 8 → Task 15: Drivers access pending requests through view requests.

Critical Path

The critical path includes the following tasks:

1. Getting Started Page
2. Sign In / Sign Up
3. Home Page
4. Input Destination Address
5. Calculate Fare
6. Create Ride Request
7. View Ride Requests
8. Accept Ride Request
9. Driver ETA
10. Confirm Pickup
11. Confirm Dropoff

12. Rate Driver

What Keeps the Sprint on Schedule

1. **Prioritizing Critical Path Tasks**: These tasks must be completed on time, as any delay affects the entire sprint; Assign dedicated team members to these tasks.
2. **Regular Monitoring**: Use tools like Trello or Jira to track the progress of critical path tasks.
3. **Efficient Communication**: Address blockers in daily stand-ups or sprint retrospectives.

Removed User Stories 6, 7, 8, and 20 due to time constraint and complexity of those tasks (refer to pb.md)