**Assumptions for Full Stack Product Engineer Technical Assignment**

**1. Technological Assumptions:**

* **Frameworks and Libraries:** It is assumed that the front-end will be developed using React, and the back-end will be built using FastAPI as specified in the requirements.
* **Real-Time Updates:** For the purpose of this assessment, WebSocket will be implemented for real-time updates.
* **Database Choice:** A relational database, PostgreSQL, will be used for this project. This choice is based on the need for structured data storage, relational data queries, and ACID compliance.

**2. User Interaction Assumptions:**

* **User Authentication:** It is assumed that a JWT authentication mechanism (e.g., user email and password) will be used to identify and verify users.
* **Profile Visibility:** User profiles are assumed to be publicly visible within the application to facilitate the sending and receiving of friend requests.

**3. Functional Assumptions:**

* **Friend Request Workflow:** The application will follow a standard flow for friend requests: users can send requests, receive notifications, and accept or reject requests.
* **Status Updates:** Users can post status updates that will be broadcast to all their friends in real-time or near real-time.

**4. Development and Testing Assumptions:**

* **Time Management:** It is assumed that the core features of the application can be implemented within the four-day timeframe excluding the weekend period.
* **Testing:** While testing is important, comprehensive automated tests are not required for this assignment. However, the basic testing strategy would be implemented.

**5. Documentation Assumptions:**

* **Detailed Documentation:** A comprehensive README file will be provided, including setup and deployment instructions, for both backend and frontend respectively, as well as detailed API documentation using FastAPI’s built-in SwaggerUI. This will ensure that the project is easy to understand and deploy.