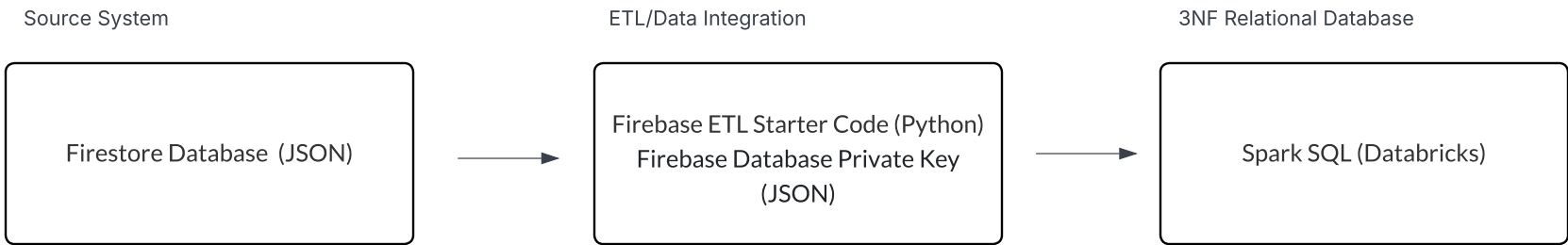


System Architecture Design



I have decided to go with the 3NF relational model as my database architecture for this project.

Choosing a 3NF relational model for Rudy's interactive theater project ensures clean, consistent data by eliminating redundancy and maintaining clear relationships between users, admins, plays, and gesture recordings. This structure supports accurate, reliable data collection needed for training the machine-learning model to detect play signals. It also makes the system easier to maintain and scale as more users, plays, or recordings are added over time.

Assumptions:

- 1. Each signal recording is linked to exactly one user and one playbook
- 2. A user can only be enrolled in one active course at a time
- 3. Each course name is uniquely tied to a course ID
- 4. Time zone accuracy is important for timestamp fields
- 5. Playbooks are pre-defined and do not change frequently

3NF Relational Model

