ECoG Data Management System

**Actors:**

* Ekstrom Lab (pull out and analyze data)
* Tandon Lab (input data)

**Use Cases:**

* Input Data
  + Manage patients
    - Add patient
    - Edit patient
    - Delete patient
    - View patients
  + Manage tasks
    - Add task
    - Edit task
    - Delete task
    - View tasks
* Output Data
  + Select data meeting particular criteria
    - Extract data for particular patient
    - Extract data for particular task
    - Extract data with particular recording coverage
  + Preprocess data
    - Reference data
      * All non-ictal electrodes
      * All electrodes on strip
      * Bipolar
    - Mark artifacts
      * Manually
      * Automatically
  + Synchronize behavioral and EEG data
  + Manage experiment events
    - Add event
    - Edit event
    - Delete event
  + Epoch data
  + Summary statistics
    - Power
    - Phase
    - PEpisode