

**Experiment 7:** List out the categories of reports and the required data to be represented with them. Also, determine the layout of the reports that may be used by individual authorities of the intended organization.

Here are potential report categories, along with the required data and suggested layouts for an Image Search Application. The authority figures mentioned include executives, and developers.

### **1. User Engagement Reports:**

- **Required Data:**

- Number of Searches
- Popular Search Queries
- User Engagement Metrics (click-through rates, time spent on results)

### **2. Performance and Reliability Reports:**

- **Required Data:**

- System Uptime/Downtime
- Response Time Metrics
- Error Rates

- **Layout:**

- Uptime/downtime timeline.
- Response time histograms.
- Error rate trend charts.

### **3. Content Metrics Reports:**

- **Required Data:**

- Most Viewed Images

- Image Upload Trends
- Content Popularity
- **Layout:**
  - Thumbnails of most viewed images.
  - Bar charts for image upload trends.
  - Heatmaps for popular content areas.