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**Roll no: BCSF17M017**

**Section: Morning**

**Design patterns used:**

* + MVC
  + Observer
  + Decorator
  + Singleton
  + Delegate

**Project Features:**

* + Fetches list of URLs (seeds) from main URL.
  + Created a crawler frontier from seeds.
  + Visits each URLs and fetches the page.
  + Parses every page to identify nodes.
  + Extract useful data from every node.
  + Convert that data in useful form using regular expressions.
  + Provides options to arrange data by
    - Death rate
    - Population
    - Birth expectancy
    - Median age
    - Electricity consumption
    - Forest Coverage
    - Agriculture Coverage
  + Stores
    - Name
    - URL
    - Flag Description Hazards
    - Prone To Earthquake
    - Lowest Elevation point
    - Forest Coverage
    - Electricity Consumption Tota
    - Electricity Consumption per Capita
    - Population
    - Dominate Religion
    - Landlocked
    - Deathrate
    - Dominate Ethnicity Percentage
    - Death Rate Rank
    - Life Expectancy at Birth
    - Agriculture Land Coverage
    - Continent
    - Median Age
    - Median Age Rank

**Project Design:**

