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Engineering Principles: Research, Design, and Build - Period 7

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<div align="center">API Behavior Categories and UML</div>

- User Interface
  - inputCityState()
  - inputClockFormat()
  - selectTimeOfDay()
  - selectMoonInfo()
  - selectCelestialEvent()
  - displayErrorMessage(msg)
  - displaySelectedInfo()
- InfromationFetcherRequestAndResponse
  - validateCityState()
  - setCityState()
  - setClockFormat()
  - setTimeOfDay()
    - getTimeOfDay()
  - setMoonInfo()
    - getMoonInfo()
  - setCelestialEvent()
    - getCelestialEvent()
  - getInfo()
  - getSunriseTime()
  - getSunsetTime()

UserInterface
+ inputCityState() : String + inputClockFormat() : Int   [12, 24] + inputDate() : LocalDate + selectTimeOfDay() : boolean + selectMoonInfo() : boolean + selectCelestialEvent() : boolean + displayErrorMessage(msg) : void + displaySelectedInfo() : void

InformationFetcherRequestAndResponse
- CityState : String - ClockFormat : Int - TimeOfDay : Char - MoonInfo : Char - CelestialEvent : Char - URL : String (https://api.sunrise-sunset.org/json) - SunriseTime : LocalTime - SunsetTime : LocalTime
- validateCityState(String CityState) : String + setCityState(String CityState) : String + setClockFormat(Int ClockFormat) : Int - validateDate(LocalDate Date) : LocalDate + setDate(LocalDate Date) : LocalDate + setTimeOfDay(Char TimeOfDay) : Char + getTimeOfDay() : boolean + setMoonInfo(Char MoonInfo) : Char + getMoonInfo() : boolean + setCelestialEvent(Char CelestialEvent) : Char + getCelestialEvent() : boolean + getInfo() : InfromationFetcherRequestAndResponse + getSunriseTime(LocalTime) : InfromationFetcherRequestAndResponse + getSunsetTime(LocalTime) : InfromationFetcherRequestAndResponse