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**Title: Display Eclipses Use-case**

**Preconditions** (*List the state(s) the system can be in before this use case starts*)

1. There must be eclipses in the database ready to be displayed

**Frequency –** Anytime that the user clicks it from the menu

**Primary path**(*Describe the “normal” processing path, aka, the Happy Path*)

1. User clicks Display Eclipses from the main menu
2. The application accesses the eclipse database, either stored within the application locally or data retrieved from online
3. The application finds the eclipse and shows the all the eclipses happening that year

**Alternate path: Description of the alternate course**

1. User clicks Display Eclipses from the main menu
2. The application accesses the eclipse database, either stored within the application locally or data retrieved from online
3. If user has already given their location data, show events happening near them

**Exception path:** Indicate what happened

* + 1. No Database detected
       1. A error pops up on screen telling you
          1. If the database is local to reinstall the application
          2. If the database is retrieved from the internet, to try reconnecting
       2. Shows the map without plotted eclipse locations
    2. If no eclipses are happening within the specified timeframe
       1. Gives user option to choose date range

**Post conditions** (*List the state(s) the system can be in when this use case ends*)

**Actors** (*List of actors that participate in the use case*)

User

**Notes**