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Development of Data Archive for the Spectroscopic Data from Thai National Observatory (TNO)

In astronomical researches, a large amount of astronomical data provides astronomers access to research material via an astronomical data archive. In Thailand, The Thai National Observatory (TNO) has been fully operational with both photometric and spectroscopic instruments for a decade and is currently developing next-generation spectroscopic instruments. Despite this, TNO's public data archive facility is still incomplete. The NARIT grant enables us to design and develop a spectroscopic data archive from TNO's next-generation spectroscopic instruments. We're working on a flexible data archiving platform based on MongoDB that can handle large amounts of data. MongoDB is a search engine that is fast and effective, versatile for both structured and unstructured data, and expandable for long-term data storage. Astronomers will have access to and be able to download public data to a local drive. The archive will allow astronomer to search for the Raw images with the preview option to verify the data before downloading. In the future, calibrated spectroscopic data from our spectroscopic pipeline, such as HiFLEx, can be added into the database.

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