Deploying MYSQL with AWS:

A screenshot of a computer

Description automatically generated

Connecting to AWS MYSQL RDS Instance:

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Description automatically generated

Creating a new user:

A screenshot of a computer

Description automatically generated with medium confidence

Users\_db on AWS reflecting the changes:

A screenshot of a computer

Description automatically generated

Two Factor Authentication Library. Secret Key will be updated before deployment. Using the current time but rounded down to the nearest 3 minutes. 2FA Codes will be unique every 3 minutes

A picture containing text, screenshot

Description automatically generated

Method that generates a unique six digit code that is valid for 3 minutes based on the username, the rounded time and a secret key:

A picture containing text, screenshot, font

Description automatically generated

Method that generates a hash from the username and the tfa code for comparison, if no tfa code is provided the current tfa code will be used:

A picture containing text, screenshot, font, software

Description automatically generated

Method that validates a login for a user based on their username and tfa\_code

A screen shot of a computer code

Description automatically generated with low confidence