

# Secure Door Lock Milestone 5 Presentation

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## Milestone 5 Task Matrix


Task	Percent Completed	James	Christopher	Warren	Luke
Video Streaming to App	50%	20%	20%	20%	40%
Mobile App Unlock/Lock	50%	30%	20%	20%	30%
Facial Recognition Classification Visible on App	90%	20%	40%	20%	20%
Usability Testing	50%	40%	20%	20%	20%
Security Testing	30%	20%	20%	40%	20%
Project Board	50%	25%	25%	25%	25%

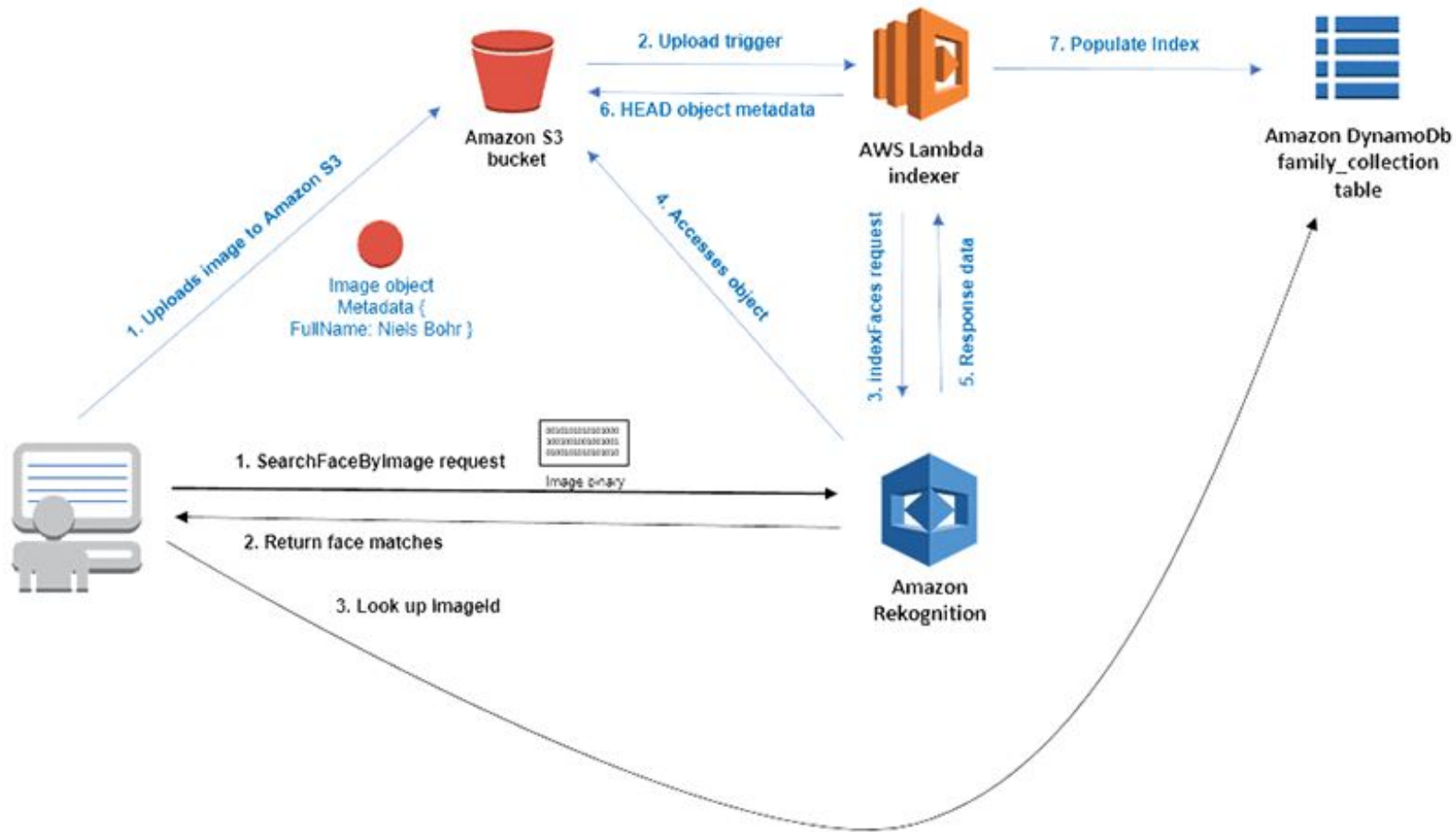
# Milestone 5 Task Discussion

- Video streaming to app
  - Video feed from the door integrated into app
  - Allows homeowner to verify facial recognition was accurate in its classification of a face
- Mobile app unlock/lock
  - Capability of homeowner to unlock/lock door was integrated into app
  - Communication pipeline between door lock and mobile app was established



# Milestone 5 Task Discussion

- Facial Recognition Classification Visible on App
    - AWS facial recognition technology was integrated into the smart door lock software
    - Combination of programming languages and frameworks used to ensure facial recognition classification is visible on app
    - Push notifications and alerts were also integrated, allowing homeowner to verify identity of person trying to enter the door
  - Usability Testing
    - App has been tested for usability by developers
    - Survey for further usability testing was developed
    - So far usability has been measured in task completion time
    - Adding a user to the facial recognition database was the first task
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# Milestone 5 Task Discussion

- Security Testing
  - Codebase was reviewed
  - All common bugs were identified
  - Some automated and manual testing was done
  - So far, we only have about 30-40% coverage
- Project Board
  - The board's design was created
  - All current information to be displayed was added



# Milestone 6 Task Matrix

Task	James	Christopher	Warren	Luke
User Manual	40%	20%	20%	20%
Developer Manual	25%	25%	25%	25%
Demo Video	20%	20%	20%	40%
Revisions of Board and Print physical board	40%	20%	20%	20%
Progress Evaluation	20%	20%	40%	20%
Usability Testing	20%	40%	20%	20%
Security Testing	20%	20%	40%	20%

# Milestone 6 Task Discussion

- User manual
  - Create a document that outlines how to use the door lock
  - Document will be aimed at the end user
  - Will provide step-by-step instructions on how to use features and functions
  - Will also include troubleshooting tips for common problems
- Developer manual
  - Create a document that outlines how to develop and maintain the door lock
  - Includes details such as programming languages, frameworks, and libraries used
  - Also include best practices and guidelines for coding and testing
  - As well as troubleshooting tips aimed at developers





# Milestone 6 Task Discussion

- Demo video
  - Short video showcasing the key features and functions of the door lock
  - Also include unique selling points and advantages of our system over competitors
- Revision to project board
  - Update our project board to reflect any feedback received
  - Ensure that the board looks professional and contains all vital information about door lock
- Project Evaluation
  - Assess the success of the project against objectives and criteria set in project plan
  - Involves gathering feedback from our client and team members
  - As well as analyzing metrics such as usability and security



# Milestone 6 Task Discussion

- Usability testing
  - Conduct testing with end-users to ensure the door lock is easy to use and meets users needs
  - Involves gathering feedback through surveys, interviews, and observations
  - Changes will be made to design and functionality based on feedback
- Security testing
  - Conduct testing to ensure the door lock is secure and protected against cyber threats
  - Involves penetration testing, vulnerability scanning, and other security assessments
  - Identifies any weaknesses or vulnerabilities that need to be addressed
  - After these issues are identified and addressed, another round of testing will be performed





Thank you. Questions?