

CTPA Students Contribution Statement

Project Title: Using AI cameras to check the compliance of staff in the shop	
Team Member	<p>Activity (these are suggestions of the ways you may have contributed. There may be others and some may not be applicable).</p> <p>You may also add comments to further explain your contribution or partial contribution to an activity.</p>
<p>Team Member 1 Photo</p>  <p>Name: Vuong Khang Minh Student ID: 104179690</p>	<p>Documents</p> <ul style="list-style-type: none"> ● Formatting all the documents Software Development. ● Project Plan(Section 5, 6). ● Project-Specific Assessment Criteria (Overall section) ● SRS - Software/System Requirements Specification (Section 1,2, 4 & 6) ● SADRR - System Architecture Design and Research Report (Section 1, 2, 4.1, 4.2, 4.3, 5). ● DSDR- Detailed System Design and Implementation (Section 2, 5). ● SQAP - Software Quality Assurance Plan (Chapters 1, 2) <p>Design</p> <ul style="list-style-type: none"> ● Front-End Design Suggestion ● System Architectural Design Suggestion ● Backend Design <p>Software Development</p> <ul style="list-style-type: none"> ● Backend Development <p>Research</p> <ul style="list-style-type: none"> ● Research Into Detailed System Design ● Research into technical platforms, languages and tools <p>Networks</p> <ul style="list-style-type: none"> ● Meeting Scheduler ● Supervisor contactor <p>Project Management</p> <ul style="list-style-type: none"> ● Microsoft Team ● Confluence ● Discord ● Google Docs ● Google Drive <p>Meetings</p> <ul style="list-style-type: none"> ● Supervisor Regular Weekly Meeting ● Weekly Team Meeting ● Weekly Client Meeting <p>Presentation</p> <ul style="list-style-type: none"> ● Created presentation slides ● Practiced and delivered the presentation <p>Other</p> <ul style="list-style-type: none"> ● Coordinated team activities ● Document manager: assigned tasks, managed progress, and ensured documentation accuracy

Team Member 2

Photo



Name: Nguyen Dang
Khanh Toan
Student ID:103487389.

Documents

- Project Plan(Section 1, 2)
- Project-Specific Assessment Criteria (Overall section)
- SRS - Software/System Requirements Specification (Section 3, 5)
- SADRR - System Architecture Design and Research Report (Section 3.2).
- SQAP - Software Quality Assurance Plan (Chapter 3, 4)
- DSDR- Detailed System Design and Implementation (Section 1).

Design

- Front-End Design
- System Architectural Design

Research

- Research into Architecture and Deployment solutions

Networks

- Meeting Scheduler

Project Management

- Microsoft Team
- Confluence
- Discord
- Google Docs
- Google Drive

Meetings

- Supervisor Regular Weekly Meeting
- Weekly Team Meeting
- Weekly Client Meeting

Presentation


- Created presentation slides
- Edit video

Deployment

- Design deployment solutions

Other

- Document quality control

<p>Team Member 3</p> <p>Photo</p>  <p>Name: Nguyen Ha Huy Hoang Student ID: 103487444</p>	<p>Documents</p> <ul style="list-style-type: none"> ● Project Plan (Sections 3, 4) ● Project-Specific Assessment Criteria (Overall section) ● SRS - Software/System Requirements Specification ● SADDR - System Architecture Design and Research Report (Section 4.4). ● DSDR- Detailed System Design and Implementation (Section 4.1). ● SQAP - Software Quality Assurance Plan (5, 6, 7) <p>Design</p> <ul style="list-style-type: none"> ● Design action recognition system ● Design Algorithm to preprocess data ● Design workflow for the action recognition system <p>Research</p> <ul style="list-style-type: none"> ● Research into AI models for action detection ● Research into hardware for action detection ● Research into data for action recognition ● Research into libraries for action recognition <p>AI Engineering</p> <ul style="list-style-type: none"> ● Develop AI models for action recognition ● Develop data pipeline for action recognition <p>Networks</p> <ul style="list-style-type: none"> ● Supervisor contactor ● Team organizer and leader <p>Project Management</p> <ul style="list-style-type: none"> ● Microsoft Team ● Confluence ● Discord ● Google Docs ● Google Drive <p>Meetings</p> <ul style="list-style-type: none"> ● Supervisor Regular Weekly Meeting ● Weekly Team Meeting ● Weekly Client Meeting <p>Presentation</p> <ul style="list-style-type: none"> ● Created presentation slides ● Created demo video
<p>Team Member 4</p> <p>Photo</p>	<p>Documents</p> <ul style="list-style-type: none"> ● Project Plan(Section 7, 8) ● Project-Specific Assessment Criteria (Overall section) ● SADDR - System Architecture Design and Research Report (Section 4.4). ● SQAP - Software Quality Assurance Plan (Chapter 8, 9) ● DSDR- Detailed System Design and Implementation (Section 3.2, 4.2).



Name: Nguyen Cuong Nhat
Student ID: 104178590

Design

- Design the solution workflow
- Design the architecture of AI model
- Design the multi-camera workflow
- Design the data pipeline architecture

Research

- Research into AI models for object detection
- Research into AI models for object tracking
- Research into AI models for uniform checking
- Research into AI models for person-reidentification
- Research into multi-camera tracking microservices

AI Engineering

- Develop AI models for object detection and tracking
- Develop AI model for uniform checking
- Develop data pipeline for image processing

Networks

- Meeting Scheduler
- AI models organizer

Project Management

- Microsoft Team
- Confluence
- Discord
- Google Docs
- Google Drive

Meetings

- Supervisor Regular Weekly Meeting
- Weekly Team Meeting
- Weekly Client Meeting

Presentation

- Created presentation slides
- Created demo video

Team Member 5
Photo



Name: Nguyen Dang Duc Anh
Student ID: 104182520

Documents

- Project Plan(Section 9, 10)
- Project-Specific Assessment Criteria (Overall section)
- SADDR - System Architecture Design and Research Report (Section 3.1).
- SQAP - Software Quality Assurance Plan (Chapter 10, 11)
- DSDR- Detailed System Design and Implementation (Section 3.1).

Design Details

- Edge-cloud architecture solution
- (Server) High level architecture
- (Server and store) Low level architecture

Research Details

- High performant video processing workflow
- Scalable event driven microservice
- Fault-tolerant architecture

	<p>Networks</p> <ul style="list-style-type: none"> • Software developer <p>Project Management</p> <ul style="list-style-type: none"> • Microsoft Team • Confluence • Discord • Google Docs • Google Drive <p>Meetings</p> <ul style="list-style-type: none"> • Supervisor Regular Weekly Meeting • Weekly Team Meeting • Weekly Client Meeting <p>Presentation</p> <ul style="list-style-type: none"> • Created presentation slides
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I declare this is an accurate description of team contributions of the team members

Team Member Name	Signature	Date
Vuong Khang Minh	<i>minh</i>	30/7/2024
Nguyen Cuong Nhat	<i>nhat</i>	30/7/2024
Nguyen Dang Duc Anh	<i>anh</i>	30/7/2024
Nguyen Dang Khang Toan	<i>toan</i>	30/7/2024
Nguyen Ha Huy Hoang	<i>hoang</i>	30/7/2024