Embedded Software Project Proposal

Smart Air Conditioning System

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2023 SWIP 1th, Team 1

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1. Project Goals

Project Goals : Smart Air Conditioning System

- It is difficult for the driver to immediately adjust the amount of air conditioning in a driving situation.
- Therefore, there is a need for a system that ***automatically adjusts the amount of air conditioning in the vehicle*** for a pleasant and safe driving situation.

[Smart Mode]

- Automatically adjust the air conditioning volume to adapt to the humidity in the vehicle.
- Humanity sensor
- Blue led indicating air conditioning volume
- Motor for air conditioning

[Manual Mode]

- User directly controls air conditioning
- Potentiometer
- Blue led indicating air conditioning volume
- Motor for air conditioning

2. Project Roll Distribution

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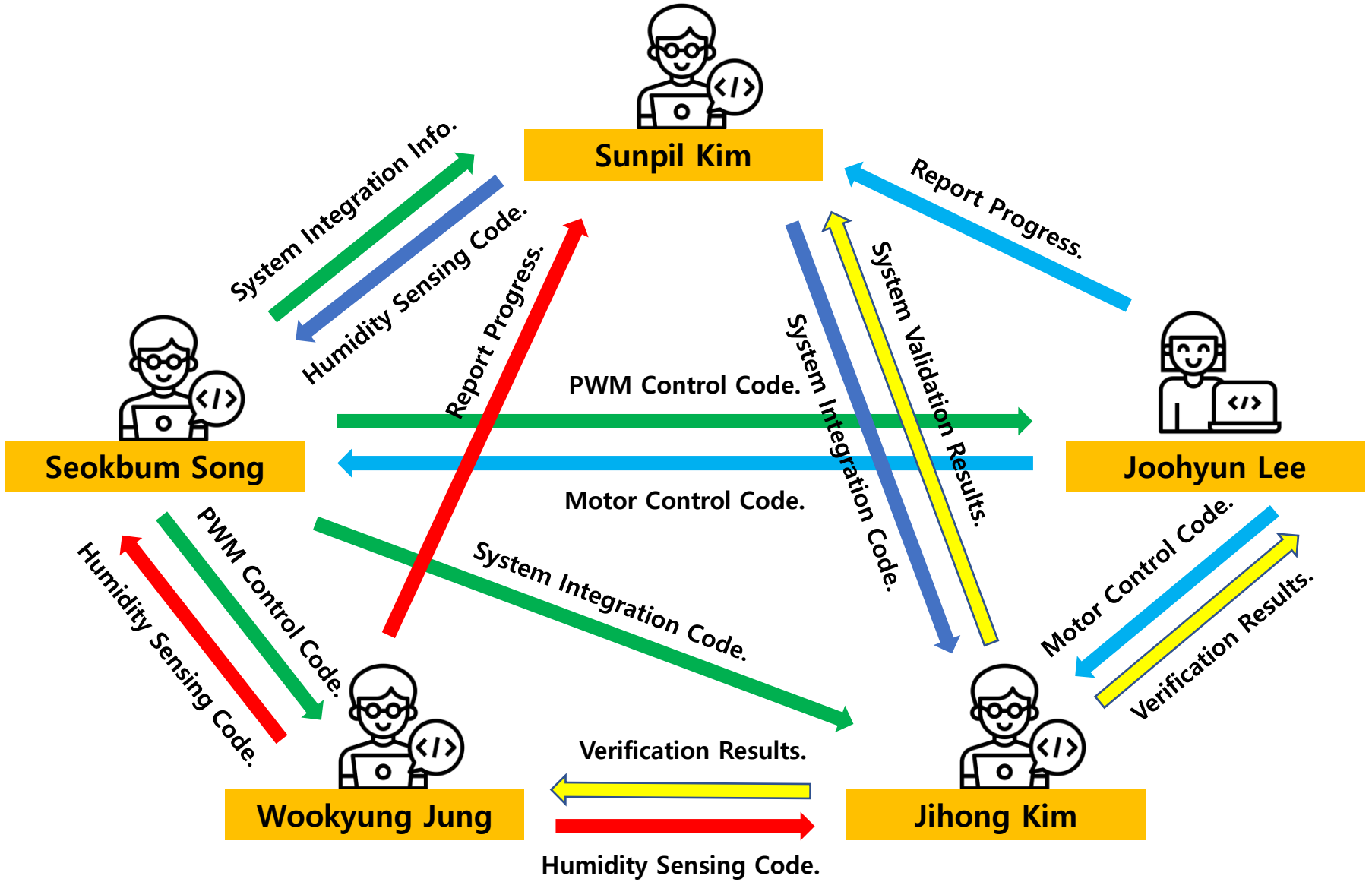
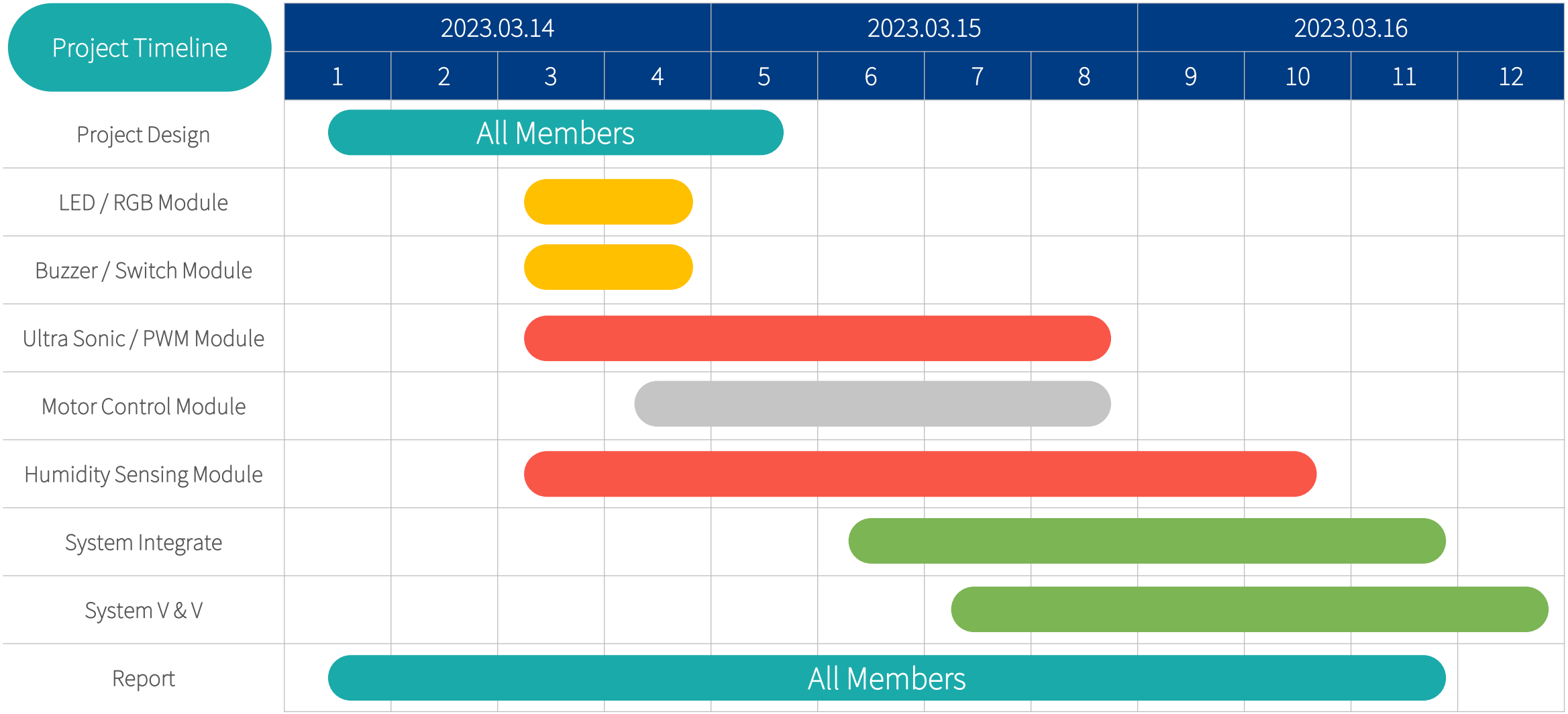
Name	Work								
	Main Roll	Design		Development		Validation		Document	
Sunpil Kim	Project Management	Ultra Sonic Humidity	20%	Humidity	10%	Module Test	10%	Overall	40%
Jihong Kim	System Validation & Verification	Ultra Sonic Motor Buzzer	20%	Sensing Module Development	22.5%	System Test	30%	UML Diagram	15%
Joohyun Lee	Module Development	LED Motor PWM	20%	Sensing Module Development	22.5%	Module Test	20%	Video	15%
Seokbum Song	System Integration	PWM Switch LED	20%	Control Module Development	22.5%	System Test	20%	Figure	15%
Wookyung Jung	Module Development	RGB LED & Humidity	20%	Sensing Module Development	22.5%	System Test	20%	Specification	15%

2. Project Roll Distribution Chart



3. Project Timeline



Thank you.

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