




Guardian

Fall Detection System

Group 88

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What is the Guardian fall detection system?

And why do we need it?



Main Objectives

- Call emergency services
- Provide accurate location to first responders
- Provide free access to users 65+
- Reduce deaths from falls



A series of four concentric circles in a light gray color, centered on the left side of the slide.

Measures of Success

- Contact authorities in a timely matter
- No issues in finding user
- Ease of access to seniors and those with disabilities
- Reduced number of deaths overall



Resources & Teams

Systems Analysis

Gather information about system implementation and provide an estimate on initial setup costs and distribution methods.

Development and Integration

Develop the hardware in conjunction with the software to provide a stable and efficient product. The system must be easy to use and design and integration must take this into account.

Deployment and Testing

Distribute and set up the finalized product. Ensure that the system works as expected in a given environment.



Risks

Skills Risk

Does the development team have the skills to create a product?

Do they understand the software?

Supplier Risk

Is there a local supplier within budget?

Can we trust they will provide the product on schedule?

Integration Risk

Does the community trust this product?

Are users willing to be wearing the product for long periods of time?



Utilized Technology & Infrastructure

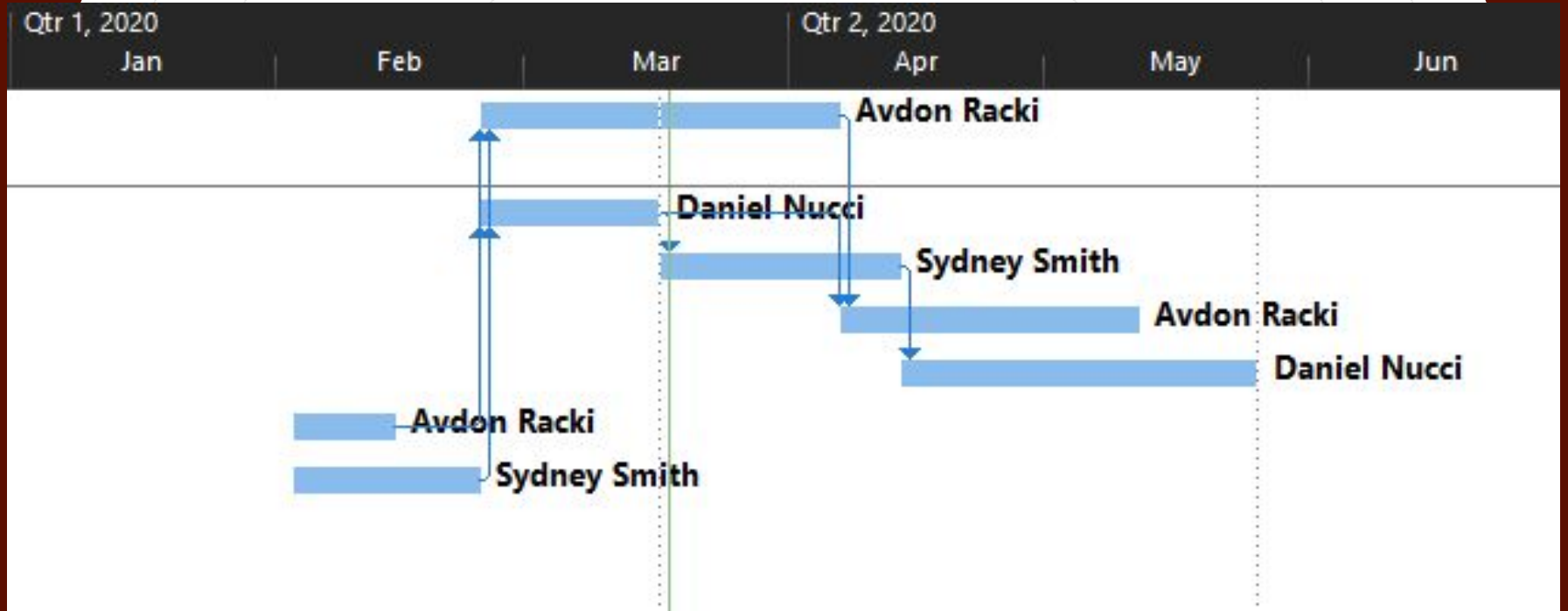
Bluetooth as primary communication between smartphone and wearable tech, which allows for a connection to both the internet and cellular. Call centres will be notified if the person wearing the wearable falls








The wearable comes equipped with many sensors including:

- An accelerometer
- An infrared sensor
- A gyroscope
- GPS functionality

Also utilized is the ZigBee protocols





Task Mode ▾	Task Name ▾	Duration ▾	Start ▾	Finish ▾	Predecessors ▾	Resource Names ▾
	Creating Cloud Services	6 wks	Tue 2/25/20	Mon 4/6/20	6,7	Avdon Racki
	Laying a Framework	3 wks	Tue 2/25/20	Mon 3/16/20	6,7	Daniel Nucci
	Documentation	4 wks	Tue 3/17/20	Mon 4/13/20	2	Sydney Smith
	Testing	5 wks	Tue 4/7/20	Mon 5/11/20	1,2	Avdon Racki
	User Training	6 wks	Tue 4/14/20	Mon 5/25/20	3	Daniel Nucci
	Software Training	2 wks	Mon 2/3/20	Fri 2/14/20		Avdon Racki
	Analyzing and calculating project complexity	3 wks	Mon 2/3/20	Mon 2/24/20		Sydney Smith



Questions?