



# BOOK MONITORING SYSTEM

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# OUTLINE

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# PROBLEM

- ⦿ Employee Dependence
- ⦿ Sequential Scanning
- ⦿ Slowly System

# PROPOSITION

- ◎ Book Monitoring System
  - RFID Technology
  - Web Application
    - Catalog search
    - Renewal
    - Reservation
    - Lease status
  - Self check-in/check-out

# DELIVERABLES

- ⦿ User interface for:
  - Administrator
  - Employee
  - Customer (book user)
- ⦿ Database to retain information of users and books
- ⦿ Prototype of a check-out / check-in station for the library

# OBJECTIVES

- Provide an initial prototype of both hardware and software individually with a progress report by October 29, 2008.
- Provide a complete working prototype of the system with a final report for December 1, 2008.

# MILESTONES

9/10/08

- Project Proposal & Oral Presentation I

10/15/08

- Oral Exam I & Prototype I

10/29/08

- Progress Report & Oral Presentation II

11/5/08

- Oral Exam II & Prototype II

11/26/08

- Oral Exam III & Prototype III

12/1/08

- Final Report & Final Presentation

# PROTOTYPES

## ◎ Prototype I

- Interface between Microcontroller and RFID Module
- Visual Interface
- Database ER and general tables

## ◎ Prototype II

- Database Testing
- Web Application under development
- Interface between Microcontroller and computer station

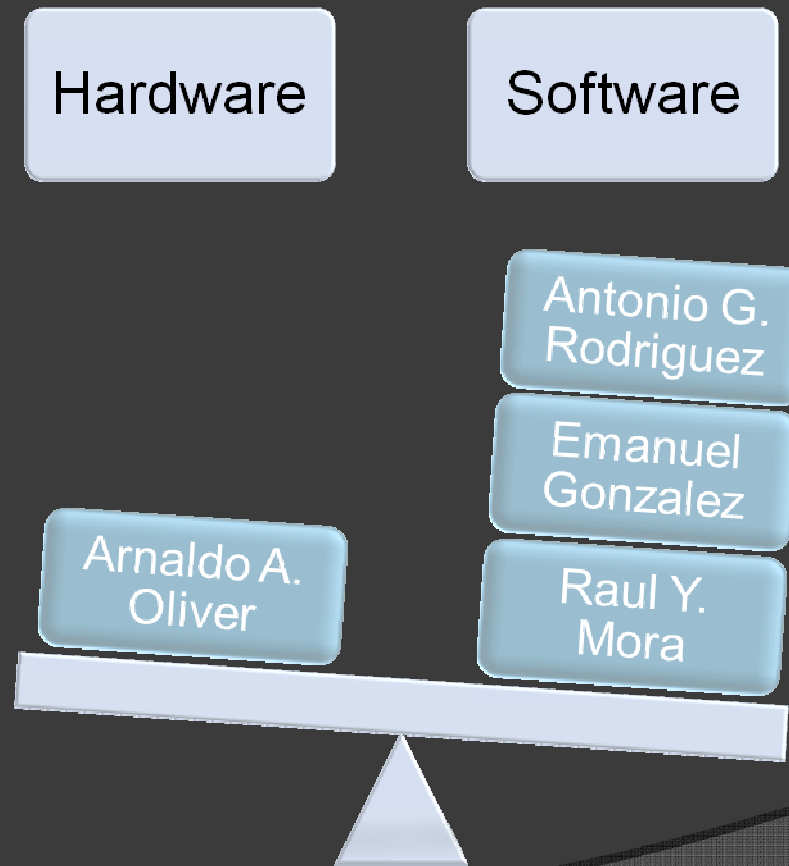
## ◎ Prototype III

- Working system

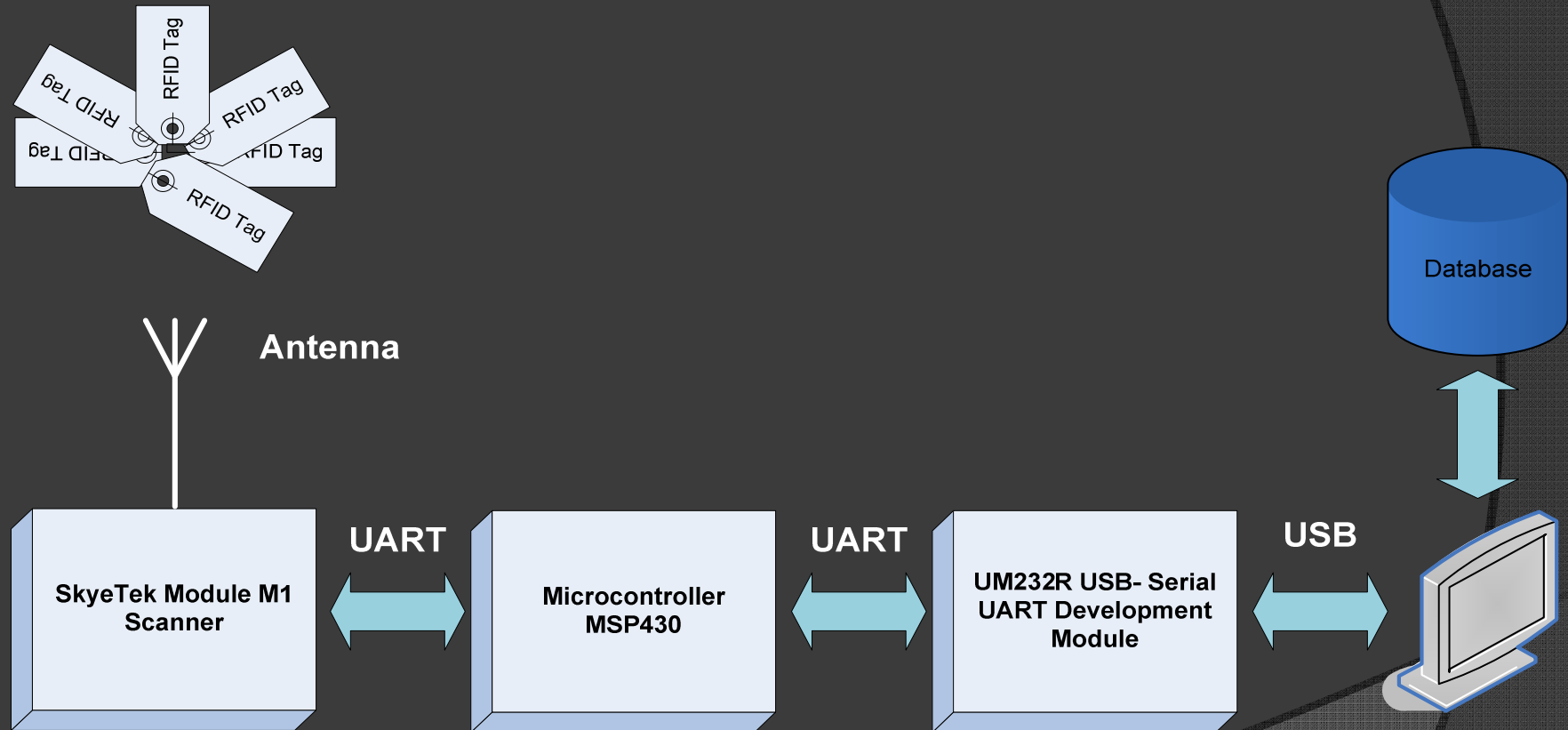


# TEAM ORGANIZATION

- BMS



# BLOCK DIAGRAM

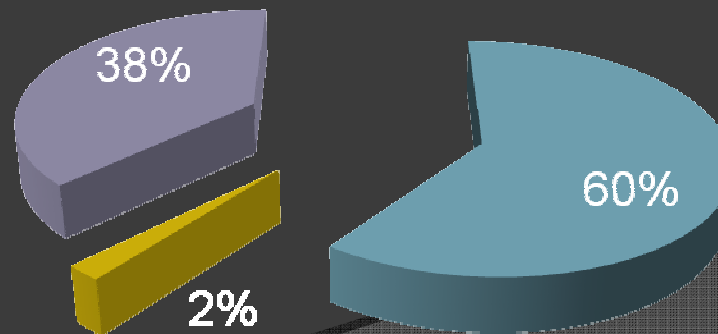


# BUDGET

## Overall Cost

Category	Cost
Total Employment Cost	\$ 32,682.00
Total Hardware & Software Cost	\$ 1,177.02
Indirect & Overhead Cost	\$ 20,271.82
<b>Total Project Cost</b>	<b>\$ 54,630.84</b>

- Total Employment Cost
- Total Hardware & Software Cost
- Indirect & Overhead Cost



# RISKS & CONTINGENCY PLAN

- Components unavailable
- Changes in requirements
- Data lost or damaged
- Hardware damaged
- Member lost

# PROJECT IMPACTS

## ⦿ Legal

- Licenses Issues
- Copyright & Distribution Issues

## ⦿ Environmental

- Reduction of Hazardous Substances (RoHS) Complaint

## ⦿ Social

- People lifestyle

# MARKET

## ◎ Competition

- 3M™
- Checkpoint®

BMS	3M™ & Checkpoint® Partnership
Check-in station	Check-in station
Check-out station	Check-out station
Book renewal and reservation	Shelf scanner to organize books

# CONCLUSION

- ◎ Prototype of BMS
  - Cost \$54,630.84
  - November 26, 2008

# QUESTIONS?

