



The Smart Health Station

Proposal

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Agenda

- Problem Statement
- Proposed Solution
- System Design
- Block Diagram
- Deliverables
- Project Budget
- Gantt Chart
- Conclusion



Problem Statement

- Nurses always have to take a patient's vital signs before he/she sees doctor
 - Multiple machines in different places are involved
 - Too much time lost
 - Nurses usually ask for the info to speed up procedure/save time



Proposed Solution

- Create a single device with multiple vital sign measurement capabilities including:
 - Weight
 - Height
 - Body Temperature
 - Blood Pressure
 - Heart Rate



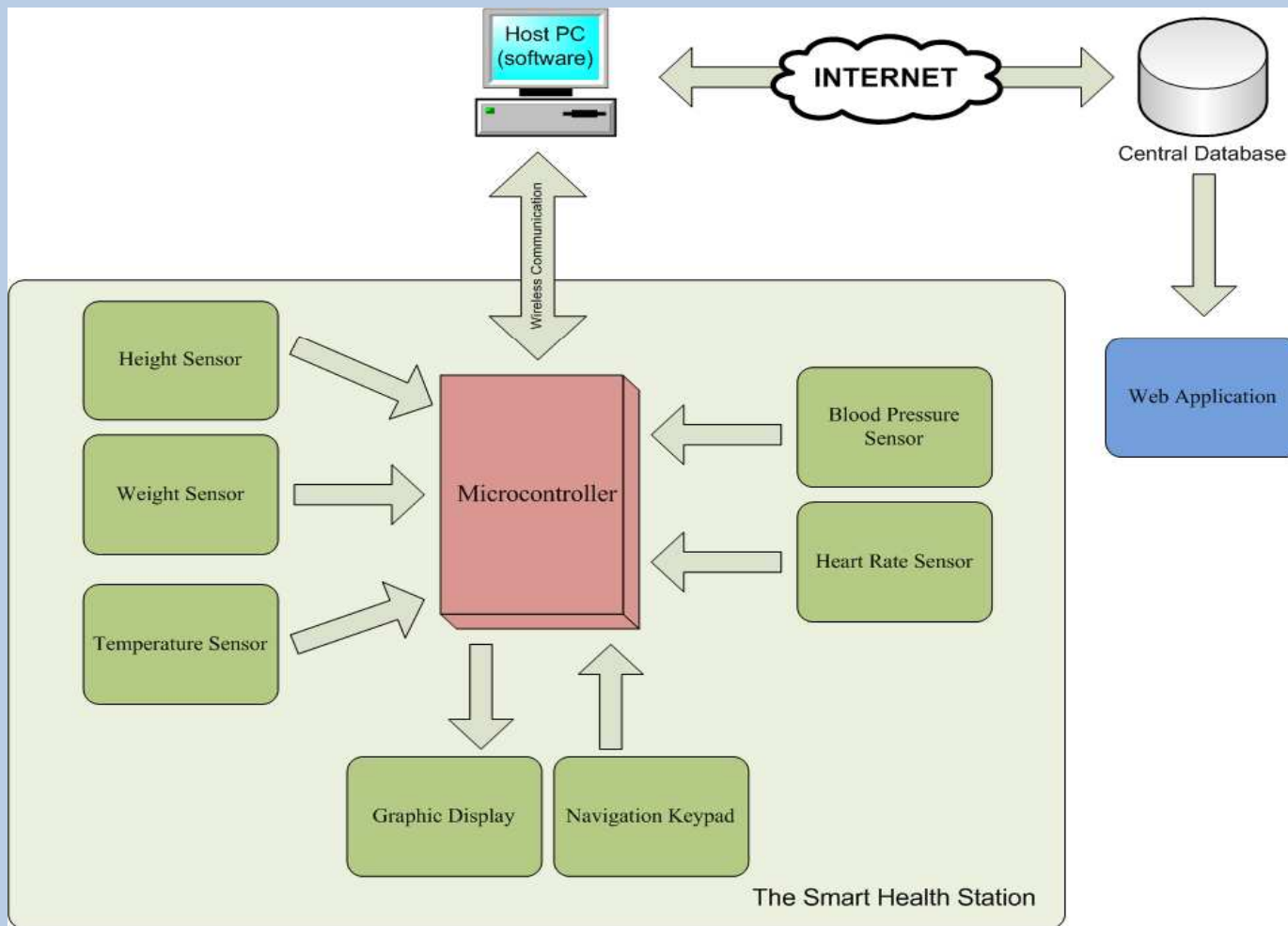
Proposed Solution

- Provide the patient with accurate vital sign data
- Provide a health report that includes info such as BMI, health state and health suggestions
- Make this data available
 - Software Tool
 - Web Application
- For who?
 - Doctors and medical staff
 - Patients

System Design

- Hardware
 - Weight sensor
 - Height sensor
 - Body temperature sensor
 - Blood pressure sensor
 - Heart rate sensor
 - Wireless communications module
 - Graphic display
 - Keypad
- Software
 - Global database
 - Local software tool
 - Web application (internet)

Block Diagram



Deliverables

- Proposal
- Progress Reports
- Final Report
- Meeting minutes
- Project Presentations

Deliverables

- Project prototype (all integrated within a single unit)
 - Weight Platform
 - Height Device
 - Temperature Probe
 - Pressure Strap
 - Heart Rate Device

- CD-ROM with Software
- User Manual/Installation Guide

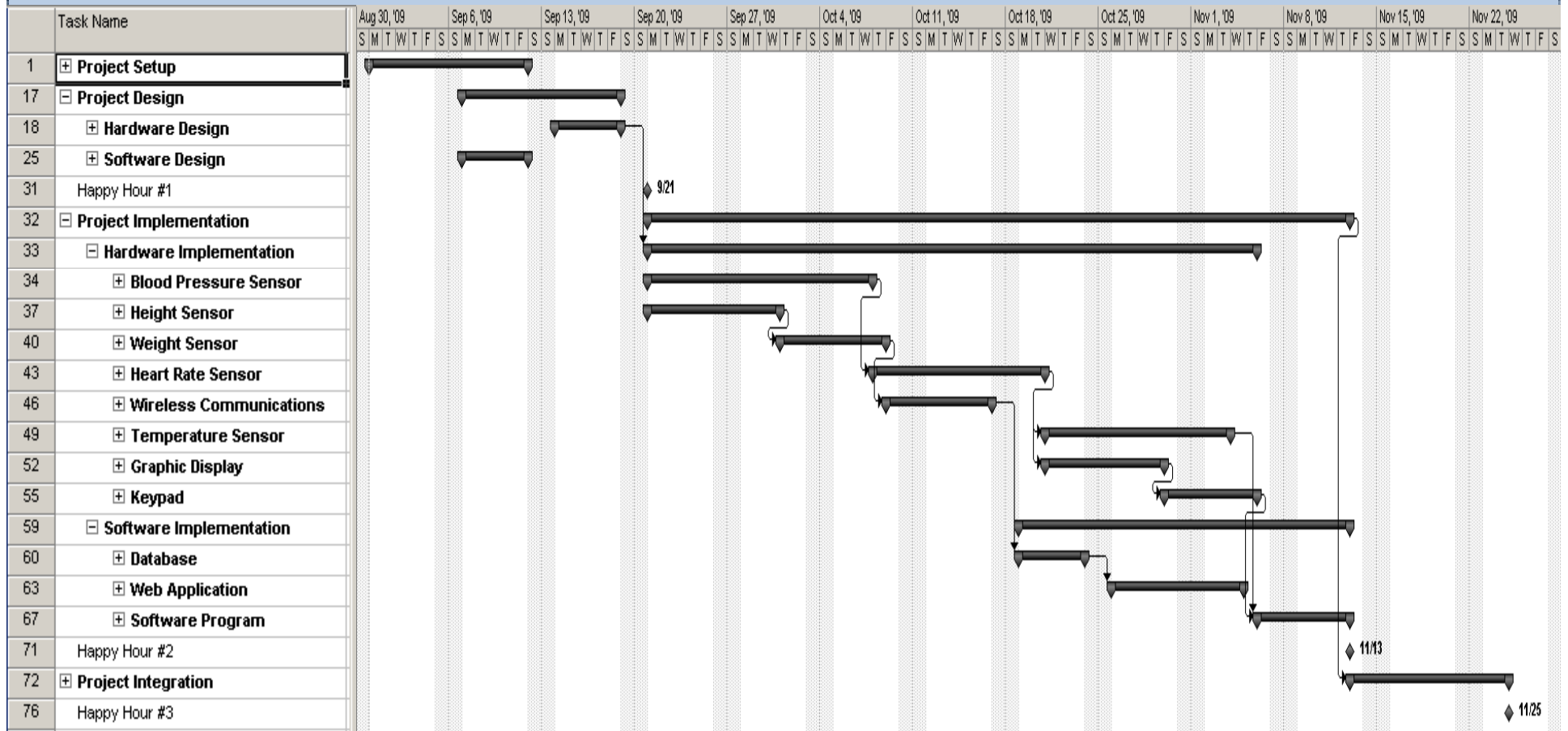


Budget

Total Project Cost	
<i>Total Personnel Cost:</i>	\$22,304.44
<i>Total Materials Cost:</i>	\$333.65
<i>Subtotal Project Cost:</i>	\$22,638.09
<i>Overhead (90%):</i>	\$20,073.99
<i>Total Project Cost:</i>	\$42,712.08



Gantt Chart



Conclusion

- The Smart Health Station
 - All-in-one device to read a patient's vital signs
 - Weight, Height, Body Temperature, Blood Pressure and Heart Rate
 - Speeds up preliminary test in a medical visit
 - Makes nurses' job easier

- Health Report
 - Based on your vital signs and other info, The Smart Health Station generates a report that assesses your health.

- Global Database
 - Information available online to patients as well as doctors

Questions

