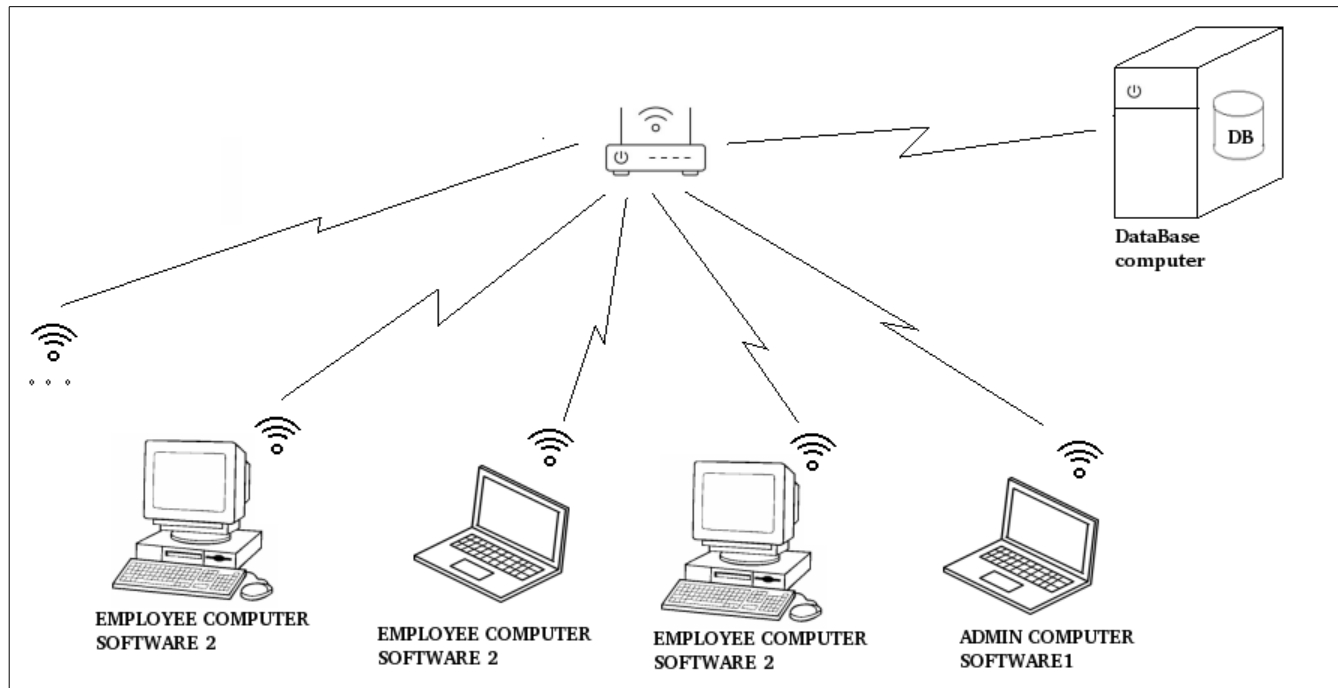


System Design 5

System Architecture



I. Hardware Requirement

- wifi router
- several desktop / laptops
- * headless desktop unit

II. Software Requirement

- * 2 softwares: employee, and admin
- * database system software

III. Interconnectivity

- database is wire connected to router
- database is static address
- desktop / laptop connected via wifi

Gantt Chart

November - December 2017	Week 1	Week 2	Week 3	Week 4
	Nov 5 – 11	Nov 12 – 18	Nov 19 – 25	Nov 26 – Dec 2
analyze company process				
preliminary design				
database design				

January 2018	Week 1	Week 2	Week 3	Week 4
	Dec 31 – Jan 6	Jan 7 – 13	Jan 14 – 20	Jan 21 - 27
database software implementation				
database hardware purchase				
database hardware setup				
sw feature requirement generation				
sw user interface design				
sw backend implementation				

February 2018	Week 1	Week 2	Week 3	Week 4
	Jan 28 – Feb 3	Feb 4 – 10	Feb 11 – 17	Feb 18 – 24
sw backend implementation				

March 2018	Week 1	Week 2	Week 3	Week 4
	Feb 25 – Mar 3	Mar 4 – 10	Mar 11 – 12	Mar 18 – 24
sw backend implementation				
sw Documentation				
sw User Training				
sw Testing				
sw Bugfixes				

Analysis

- analyze company process
 - Company will be analyzed regarding the processes and what could be automated.
- preliminary design
 - Preliminary design of the system will be generated and shown. Includes the Hardware architecture of the system.

Database

- database design
 - Design of database ER diagram. Will be based on what data can be collected and transform into desired output.
- database software implementation
 - Implementation of database ER diagram into mySQL.
- database hardware purchase
 - Purchase of hardware receipt will be provided.
- database hardware setup
 - Purchased hardware would be setup into a dedicated server.
- database office installation

- Installation of the database hardware into actual office.

Software Development

- sw feature requirement generation
 - Determine the desired outputs of the software.
- sw user interface design
 - Design the apperance and behavior of the software.
- sw user interface implementation
 - Implement the proposed design and functionality.
- sw backend implementation
 - Implement the underlying computations of the software requirement.

Polishing stages

- sw Documentation
 - Includes User Manual and Technical Manual for use by succeeding developer.
- sw User Training
 - A slideshow presentation of the User Manual.
- sw Testing
 - Actual testing by all users of the software.
- sw Bugfixes
 - Fixes of bugs found during testing.

Scope of Work

- This project only includes System Software. Which only includes:
 - database hardware / software
 - software for use with data
- Does not yet include the “Expert System”.
- The “Expert System” will have its own quotation independent of this quotation.
- Software feature recommendations will have a deadline on January 2018.
- All software features being asked after January 2018 is not included in this project and should have its own quotation.
- All bugs found after March 24, 2018 will not be covered by this contract and will have its own charge.
- For any delays that i might cause. Justification and schedule adjustment would be provided.

Payment Breakdown

Hardware Database	5000pesos	
Hardware Installation Cost	1000pesos	
Total Hardware Cost		6000pesos

Software Database Design / Implementation	5000pesos	
Software User Interface / UI implementation	5000pesos	
Software Backend	15000pesos	
Software Documentation: User Manual	free	
Software Documentation: Technical Manual	5000pesos	
Total Software Cost:		30000pesos
Total		36000pesos

Payment Schedule

Total Cost				
Hardware Cost	100%	6000pesos	6000pesos	Dec 10, 2017
Software Cost	100%	30000pesos		
	33.333%		10000pesos	Jan 26, 2018
	33.333%		10000pesos	Feb 9, 2018
	33.333%		10000pesos	Mar 23, 2018

Note : price and schedule of payment for Database Hardware may change depending on the hardware supplier. Their quotation and receipt will be provided.

- JonathanCempron