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| Project Proposal | CPSC 471 – Group 2   |  |  | | --- | --- | | Project title: | A Database System for an industrial LED company | | Project Time-frame: | January 8, 2018 – April 15, 2018 | | Prepared by: | Jason De Boer  Vishaal Bakshi  Hassan Chaudhry  Sladana Kovacevic |   Introduction   |  |  | | --- | --- | | Definitions | Company – The Industrial LED Company  Customers – company’s clients  Vendors - …….. | | Detected problem | The Company requires efficient Inventory management system. Potential additional requests are the Project management system and/or the Employee payroll system. | | Proposed solution | Building a Database System that will ensure effective and operative inventory management system, prompt order request handling by the Company on one side, and its Vendors on the other end.  Possible additional features:   * Project management system * Employee Payroll system |   Problem Definition   |  | | --- | | The Company necessitates the efficient and effective inventory management system. Maintaining excessive inventory is costly and not desirable for the Company, as well as encountering product deficit at the time of the Customer’s order placement. With that said, efficient inventory management is one of the crucial features of a successful business process.  We found this problem interesting as creating a database system for customers, employees and vendors is a complex task as it requires employees from various departments to coordinate their project inventory needs efficiently with suppliers. At the same time Customer needs must be met in a timely manner or the company risks losing business. Vendors must be provided with orders so that the inventory is never depleted.  Currently, Data systems exist where employees and suppliers use relational models to manage inventory according to their project and customer needs. Possible improvements to the current solutions could be performed. However, the Company is looking for a new, functionally improved, user friendly system that will connect all the business process parties and ensure the smooth process flow. |   Proposed Solution   |  | | --- | | The project shall produce a Data System that enables the Company to manage inventory efficiently. The Company will have a working database system and software that ensures cost effective inventory management.  Collaboration with Vendors will be supported by managing order requests, which will be accessible to Vendors for further processing.  In addition, the project will create the Company’s website that will ensure unique experience for its Customers. The focus will be on the user-friendly, easy navigating solution, that will facilitate Customer’s needs in a timely and efficient manner.  The product catalog will ensure well organized and appropriately presented products which features could easily be understood by the Customers. This will enable finding the best possible solution for the Customer requirements.  Features – 3 Entities – Customers, Employees, Vendors   * **Customers** - shall have the ability to place orders by logging in * **Vendors**- shall log in to see order requests * **Employees** -   + - **Manager** shall have operational control of orders from customers.     - **Manager shall**  send orders to vendor     - **Product Engineers** shall work on Projects under a Manager – Manager shall order inventory for projects     - **Manufacturing Plant** – Manager – employees |   Motivation   |  | | --- | | * *Why do we need your solution?* * *What makes your project unique?* * *Emphasize what your project contributes or achieves!* |   Conclusion   |  | | --- | | * *Summarize the project including the problem, motivation, and proposed solution.* * *Provide an estimated timeline of project deliverables and important dates.* |   References   |  | | --- | | * *List references used to compile proposal and references that will be used for project (if already known).* | |