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Learn some open sources that support project management similar to MS Project

Jira

- Jira is a proprietary issue tracking product developed by Atlassian that allows not only project management but bug tracking, agile, project management, and work management.
- Highlight features of Jira:
- Scrum boards and Kanban boards: Visually drag and drop to track the tasks' progress (backlog, in progress, implemented...).
- Roadmaps: Keeping track of the team progress.
- Reports and insights: reports based on statistics and dashboard offer critical insights to ensure the team is always up-to-date.
- Project flexibility: Autonomy, structure, customizable workflows, and integrations.
- Let developers focus on code:
- View repositories.
- See development status.
- Get DevOps visibility.
- Security and scale: SAML SSO, 2-step verification, automated user provisioning.

Jira vs Microsoft Project

Advantages

- Jira has a simpler UI that allows developers to perform task management more efficiently.
- Keep track of task management of the teams in real time.
- Quicker to learn for beginners (better learning curve).

Disadvantages

- Cannot be applied to other fields than Software Development.
- Capped file size upload and complex migration.

Youtrack

- YouTrack is a proprietary, commercial browser-based bug tracker, issue tracking system, and project management software developed by JetBrains. It focuses on query-based issue search with auto-completion, manipulating issues in batches, customising the set of issue attributes, and creating custom workflows.
- Highlight features of Youtrack:
- Time tracking: monitor and report time spent on different projects and various activity types
- Gantt charts: create and update your project plans on an interactive timeline
- Timesheets: track work activity for yourself and other members of your team
- Agile boards: plan and prioritise your product development on a board that represents the process followed by your team
- Reports: collect and summarise insightful bits of information
- Dashboards: monitor activity in all of your projects

Advantages:

- Issue tracking: Provide comprehensive issue tracking capability, allow teams to create, manage, keep track of issue, bug, tasks and other project-related items in an easy way/

- Customization: Offer high level of customization. Team can configure workflows, boards, and dashboard to suit their specific project management needs.
- Collaboration: Allow team members to connect by using comments, notifications and mentions to easily communicate and collaborate on project tasks and updates
- Integration: Can integrate with popular tools like GitHub, GitLab, Slack, and more, so manager can know exactly what workflows and improve productivity.
- Report and Analytics: Enabling team to generate custom report, track their work and analysis their performance and project metrics.

Disadvantages:

- Learning Curve: Have a steeper learning curve for users who are not familiar with similar project management tools or software. Therefore, it may require a lot of time and effort to train and onboard.
- Complex setup: Require technical expertise, and teams may invest time in customization and configuration to align software to suit with their specific project management requirements.
- Scalability: Large team with complex software project may find it less suitable due to limitation in scalability and performance, while I think it is suitable for small to medium-size project.
- Cost: Have different pricing plans including a free plan with limited features but more advanced features and functionalities may require a paid plan, which can be considered of budget-conscious team.

Write a Project Charter and Scope statement

Project Name: Chain of Drug Store Management Project

Project Description: This project aims to develop a comprehensive solution for managing the operations of a chain of drug stores. The solution can help each store to find the potential customer by online selling and manage each store by inventory management, sales tracking, customer management, and employee management. The project will involve the development of a software system that can be integrated with the existing hardware and software infrastructure of the stores.

Project Scope: The project will cover all aspects of the management for all drug stores in the chain. The system will be designed to handle the management of all stores in an easy way to use. Development, testing, deployment and maintenance will be included in the scope of the project.

1. **Deliverables:** The software system will help to manage the chain of drug stores and the website to sell online.

2. Functionality:

- Website: Sell online, management of customer and medicine, chatbot.
- Management software: Management of employee, warehouse, sale and statistics.

3. Technical Structure:

- To develop applications that have unnoticeable delay in interaction.
- To develop which can be use on website and also desktop comp

Project Stakeholders: The stakeholders of the project include the owner of the chain of drug stores, manager and employee in each store who will be using the software system and also the customer who buys online in the website provided by the stores..

Business Case: The project is important for many reasons. One of these is that it will help the owner to improve their business, operation and provide better services to the customers. The store will optimise their inventory level, keeping track of the sale and the customer behaviour and manage their employees more effectively. These can lead to increased efficiency, reduce the cost each year and can adapt to the customer satisfaction.

Value Proposition: The software system will provide the following value propositions to the chain of drug stores:

- Improved inventory management
- Sale tracking and analysis will be better
- Customer management can be improved
- Employee management can be more efficient.

Project Objectives:

- To design the software system for management and selling online.
- To keep track sale and customer behaviour and use this information to improve their services
- To manage employees in an efficient way and reduce labour costs.
- To improve customer satisfaction and loyalty.
- To improve the inventory management and reduce wastage.

Project Timeline: The project will be completed in 6 months.

Project Deliverables: The project will deliver the following outcomes:

- A software system for managing the operations of the chain of drug stores
- Training materials for the employees who will be using the software system
- Documentation for the software system
- Technical support for the deployment and maintenance of the software system

Project Constraints: The following are the constraints faced by the project:

- Limited budget (1 billion VND)
- Limited resources.
- Compliance with regulatory requirements

Assumptions: The following are the assumptions made for the project during the initiation phase:

- The existing hardware and software infrastructure of the stores will be compatible with the software system.
- The employees of the stores will be willing to learn and use the software system.
- The regulatory requirements will not change significantly during the course of the project.
- The project team will have access to the necessary resources and expertise to complete the project.

Cost:

Budget	
Salary for team's developer	120 mil / month
Server	20 mil/ month
Maintenance in period	5 mil/ month
Contingency cost	80 mil
Other cost (Set up,)	40 mil

Feature:

	Progression		
Online sale website	2 months	4 months	6 months
Design UX/UI		100%	100%
Customer can search medicine information	70%	100%	100%
Customer's information management	50%	100%	100%
Employee can add new medicine to sale	80%	100%	100%
Payment for customer	0%	80%	100%
Allow customer to review medicine after using	0%	80%	100%
Statistic	0%	60%	100%
Chatbot Client consultant (AI or directed)	50%	80%	100%
Medicine store management			
Design UX/UI	100%	100%	100%
Employee management	40%	80%	100%
Warehouse management	40%	70%	100%
Allocating medicine management	0%	50%	100%
Retail management	30%	60%	100%
Statistic	0%	50%	100%

Schedule:

Module: Planning and Research	Start Date	End Date	Assigned Team Members
Define scope and objectives	2023-04-01	2023-04-07	Minh Thức, All
Research requirements	2023-04-08	2023-04-21	Minh Thức, All
Define user personas	2023-04-22	2023-04-28	Minh Thức, All
Develop project plan	2023-04-29	2023-04-30	Minh Thức, All
Choosing platform	2023-04-29	2023-04-30	Minh Thức, All

Module: UI/UX Design	Start Date	End Date	Assigned Team Members
Create wireframes	2023-05-01	2023-05-10	Công Đạt, Phước
Design UI/UX	2023-05-11	2023-05-24	Công Đạt, Thức
Finalize branding	2023-05-25	2023-05-31	Công Đạt, Khoa

Module: Database Design	Start Date		Assigned Team Members
Design schema for customer	2023-06-01	2023-06-03	Thức, Đạt

Design schema for medicine	2023-06-04	2023-06-06	Thức, Đạt
Design schema for employee	2023-06-07	2023-06-09	Thức, Khoa
Design schema for sale and bill	2023-06-10	2023-06-12	Thức, Khoa
Design relationship among schemas	2023-06-13	2023-06-14	Thức, Phước

Module: Drug management for medicine store	Start Date	End Date	Assigned Team Members
Develop API for CRUD medicine information	2022-06-15	2022-06-17	Khoa, Đạt
Develop API for importing/exporting medicine	2022-06-18	2022-06-19	Khoa, Đạt
Develop API for providing a list of expired medicine	2022-06-20	2022-06-21	Phước, Thức
Develop API for providing a list of out-of-stock medicine	2022-06-20	2022-06-21	Phước, Thức

Start Date	End Date	Assigned Team Members
2023-06-01	2023-06-30	Phước, Thức
2023-06-01	2023-06-30	Phước, Đạt
2023-06-01	2023-06-30	Phước, Khoa
	2023-06-01 2023-06-01	Start Date End Date 2023-06-01 2023-06-30 2023-06-01 2023-06-30

Module: Sales and Billing management	Start Date	End Date	Assigned Team Members
Develop API for generating invoices when customer buys	2023-06-01	2023-06-03	Công Đạt
Integration third party payment method (visa or momo)	2023-06-04	2023-06-10	Công Đạt
Develop API for cart management	2023-06-11	2023-06-15	Công Đạt

Module: Customer management	Start Date		Assigned Team Members
Develop API for CRUD customer account	2023-06-01	2023-06-10	Minh Thức
Develop API for query customer history orders	2023-06-11	2023-06-17	Minh Thức
Develop API allow user to chat with employee	2023-06-18	2023-06-25	Minh Thức

Module: Statistic	Start Date		Assigned Team Members
Feature: Implement statistic report export for Sale and Bill		2023-06-08	Đăng Khoa

Feature: Implement statistic report export for Employee and Salary	2023-06-09	2023-06-17	Đăng Khoa
Feature: Implement statistic report export for User Sign In	2023-06-18	2023-06-25	Đăng Khoa

Module: Message Box	Start Date		Assigned Team Members
Feature: Hire Chatbot service and implement to the system	2023-06-01	2023-06-08	Minh Thức

Module: Frontend Development	Start Date		Assigned Team Members
Develop frontend UI/UX and connect backend	2023-07-01	2023-07-31	Công Đạt

Module: Testing and Deployment	Start Date		Assigned Team Members
Conduct functional and user acceptance testing	2023-08-01	2023-08-14	Đăng Khoa
Address any bugs or issues that arise	2023-08-15	2023-08-21	Đăng Khoa
Deploy app to staging environment	2023-08-22	2023-08-31	Minh Phước

Module: Launch and Post-Launch Support	Start Date		Assigned Team Members
Launch the app	2023-09-01	2023-09-07	All