Roadmap

Roadmap			
Stage	Guiding Question	Key Task	Deliverable
Ask	What is the problem? What is the problem you are trying to solve? How can your app solve business problem? How users will use your app? Where is your data located? How is the data organized?	Identify the business task and key stakeholders. Identify the primary key of the data. Choose your required columns. Organize and format your data.	A clear statement of the context, stakeholders, business task, limitation, and data summary.
Main	How users can run each CRUD features?	Prompts the user to enter the number according to which menu will be selected. Make sure users can run each feature. Ensure user can exit the application.	A regular function to show and run the main menu.
Create	How can users add new data?	Prompts the user to input data. Make sure there are no duplicate data. Validate the new data format. Prompt the user to save data or not. Show notifications.	A regular function to add new data to the database.
Read	How can users read all or some of the data?	Prompt the user to read data. Make sure data is exist. Display data in a user-friendly way. Show notifications.	A regular function to read data from the database.
Update	How can users can change existing data?	Prompt the user to select the spesific column to be updated. Make sure data is exist. Validate the update data format. Prompt the user to update data or not. Show notifications.	A regular function to update existing data.
Delete	How can users delete existing data?	Prompt the user to select the spesific data to be deleted. Prompt the user to delete data or not. Validate the data was successfully deleted. Show notifications.	A regular function to delete existing data.
Integration	How can users maintain and upgrade new features to the app? How do users ensure that features are well integrated with each other? How can the user's development team understand and read your code clearly and well? What are the conditions that can cause an app to stop working or error? What to prepare for when errors arise?	- Complete code documentation Ensure all features are interconnected Minimize the possibility of causing errors Optimize code writing for low memory size and runtime consuming Show the potential of apps that can be developed.	Program code that is interconnected, high level of readability and scalability.

Project Planning Example

Context: Warehousing ...

Problem: Perusahaan mengalami dead stock disebabkan pelaku usaha menjalankan praktik pengadaan barang yang tidak konsisten. Misalnya, level permintaan yang rendah sedangkan pelaku usaha membeli barang terlalu banyak.

Business task: Perusahaan memerlukan sistem untuk memantau proses operasional gudang. Sistem ini akan membantu pelaku usaha untuk mendapatkan stock barang secara rili, dan dapat dijadikan acuan dalam melakukan stock opname.

Stakeholder: Staf gudang.

Limitation: Aplikasi management barang akan menerapkan konsep FEFO.

Data Summary: Dataset merepresentasikan stock obat dari perusahaan farmasi, dataset terdiri dari 10 kolom yaitu