EXT JS ARCHITECTURE

By Group B
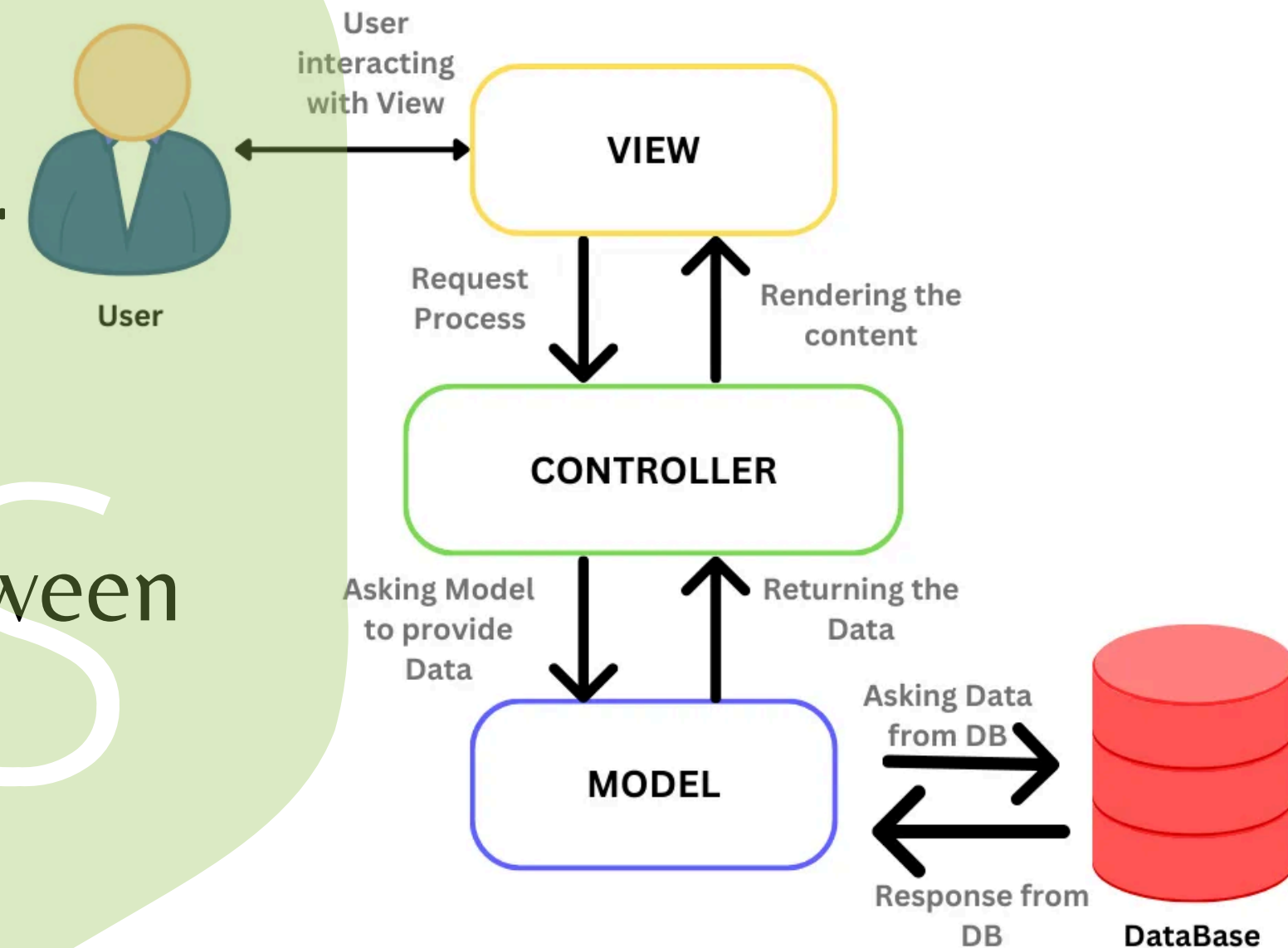
INTRODUCTION TO EXT JS

- Ext JS is a powerful JavaScript framework for building large-scale web applications

- It supports both MVC and MVVM architectures.

- Ideal for enterprise-level applications requiring complex UIs and robust data handling.

EXT JS FRAMEWORK OVERVIEW

1. Components : Ext JS applications are composed of nested components.

2. Data Binding : Supports dynamic updates and reduces manual DOM manipulation.

3. Rapid Development : Tools like Sencha Cmd and Rapid Ext JS facilitate quick app development.
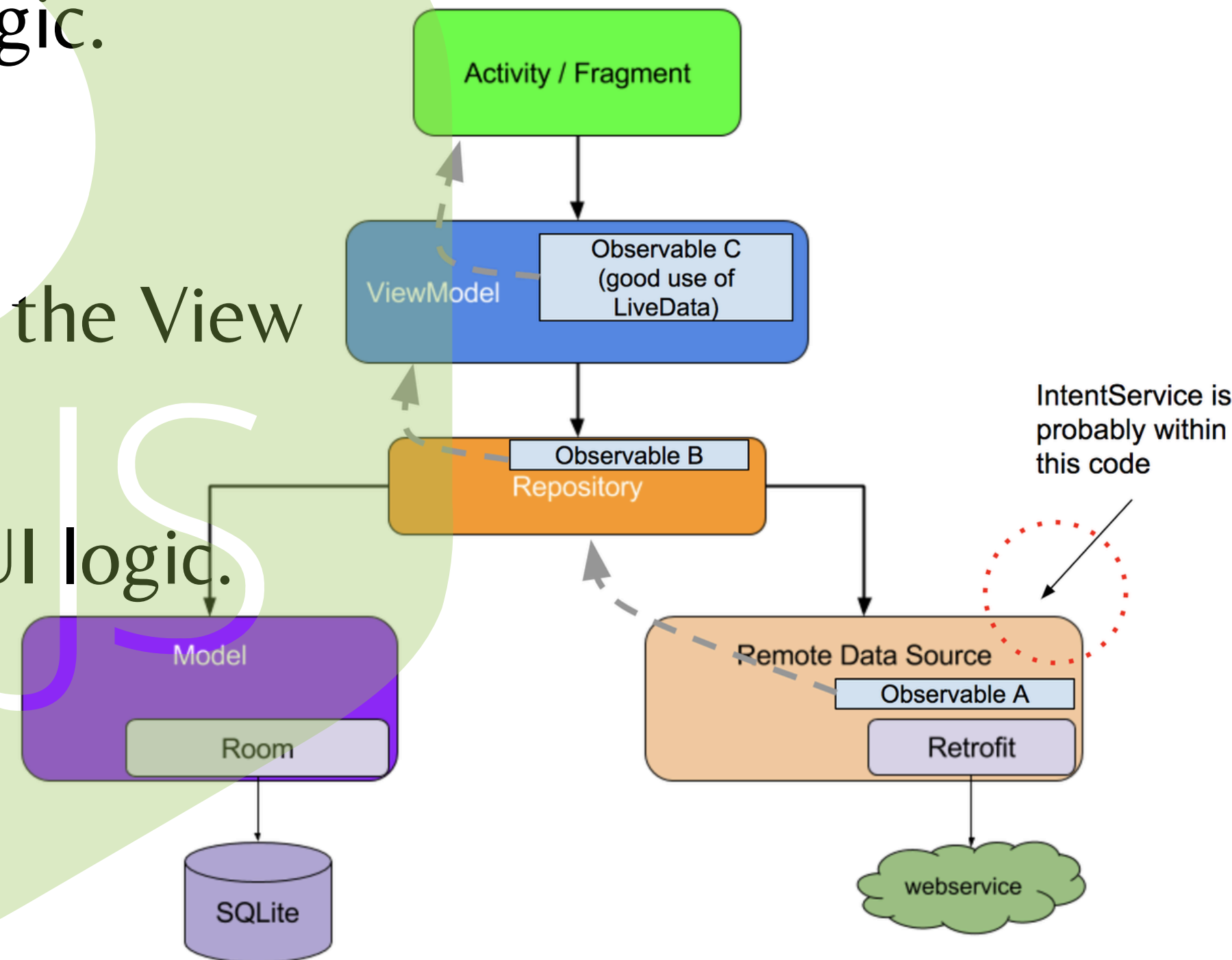
MVC ARCHITECTURE IN EXT JS

- <u>Model</u> : Handles data and business logic.

- <u>View</u> : Presents the UI.

- <u>Controller</u> : Manages the interaction between Model and View.

MVVM ARCHITECTURE IN EXT JS

- <u>Model</u> : Handles data and business logic.

- <u>View</u> : Presents the UI.

- <u>ViewModel</u>: Acts as a bridge between the View and Model.

- Supports data binding and simplifies UI logic.

BENEFITS OF MVVM IN EXT JS

1. Separation of Concerns: Business logic is separate from UI code.

2. Improved Testability: Easier unit testing of business logic.

3. Scalability and Maintainability: Supports application growth without losing structure.

4. Data Binding: Automatic updates reduce manual coding.

BEST PRACTICES FOR MVVM IN EXT JS

- Set clear boundaries between components.

- Leverage data binding.

- Use ViewModels for logic.

- Optimize performance with large datasets.

- Document thoroughly.

CONCLUSION

- Summary: Ext JS offers robust tools and architectures for building complex web applications efficiently.

- Flexible architecture with MVC/MVVM support.

- Powerful framework for building complex applications.

- Call to Action: Explore Ext JS further for your next project.

THANK YOU