

# FYP Project Advisor - Recommendations

The proposed project - a high-complexity, AI-powered chat application for FinTech within a tight 3-month timeline and \$10K budget - presents significant challenges. While ambition is commendable, the combination of AI, FinTech, and a short timeframe with limited resources is unrealistic for a final year project in Pakistan.

## Recommended Adjustments:

1. **Project Type & Scope Reduction:** Instead of a full-fledged AI-powered chat application within FinTech, I recommend focusing on a **smaller, more manageable scope**. Consider building a **specialized chatbot** for a **single** FinTech use case, such as:

1. **Customer Support Chatbot** for a simplified banking scenario: This could focus on answering frequently asked questions about account balances, transaction history, or basic loan inquiries. It avoids the complexities of real-time financial transactions.

2. **Risk assessment chatbot (simplified):** This could analyze basic user-provided data (e.g., income, expenses) and provide a preliminary risk assessment for a loan application (without actual loan processing). This limits the AI complexity and the integration with a real financial system.

2. **Technology Stack Adjustment:** While React is a good choice for the frontend, using a sophisticated AI model within the 3-month timeframe and budget is problematic. Instead of directly integrating complex AI models, consider using a **pre-trained model and API** such as Dialogflow or Rasa. These platforms provide ready-to-use natural language processing (NLP) capabilities. This drastically reduces development time and specialized expertise needed.

3. **Frontend:** React (Your choice is good here)

4. **Backend:** Node.js with Express.js (Lightweight and efficient for this reduced scope).

5. **Database:** PostgreSQL (A robust, open-source SQL database readily available and suitable for smaller projects)

6. **AI Integration:** Dialogflow or Rasa (Pre-trained models via API calls).

3. **Timeline & Budget Re-evaluation:** Even with the scope reduction, a 3-month timeline is ambitious. I strongly recommend extending it to **at least 4 months** to account for potential delays and unforeseen issues. The \$10,000 budget might be sufficient for the adjusted scope **if** you leverage free/open-source tools effectively and minimize outsourcing. Consider seeking sponsorship from local FinTech companies or universities for additional support.

4. **Project Category:** Instead of "AI", a more accurate category would be **"Chatbot Development with AI Integration."** This clearly reflects the project's core functionality.

## Implementation Strategy for Pakistan's Context:

7. **Leverage Open-Source:** Utilize free and open-source tools wherever possible to reduce costs.

8. **Focus on Practical Skills:** This revised project will still teach valuable skills in frontend

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development (React), backend development (Node.js), database management (PostgreSQL), and API integration, all highly relevant in Pakistan's tech industry.

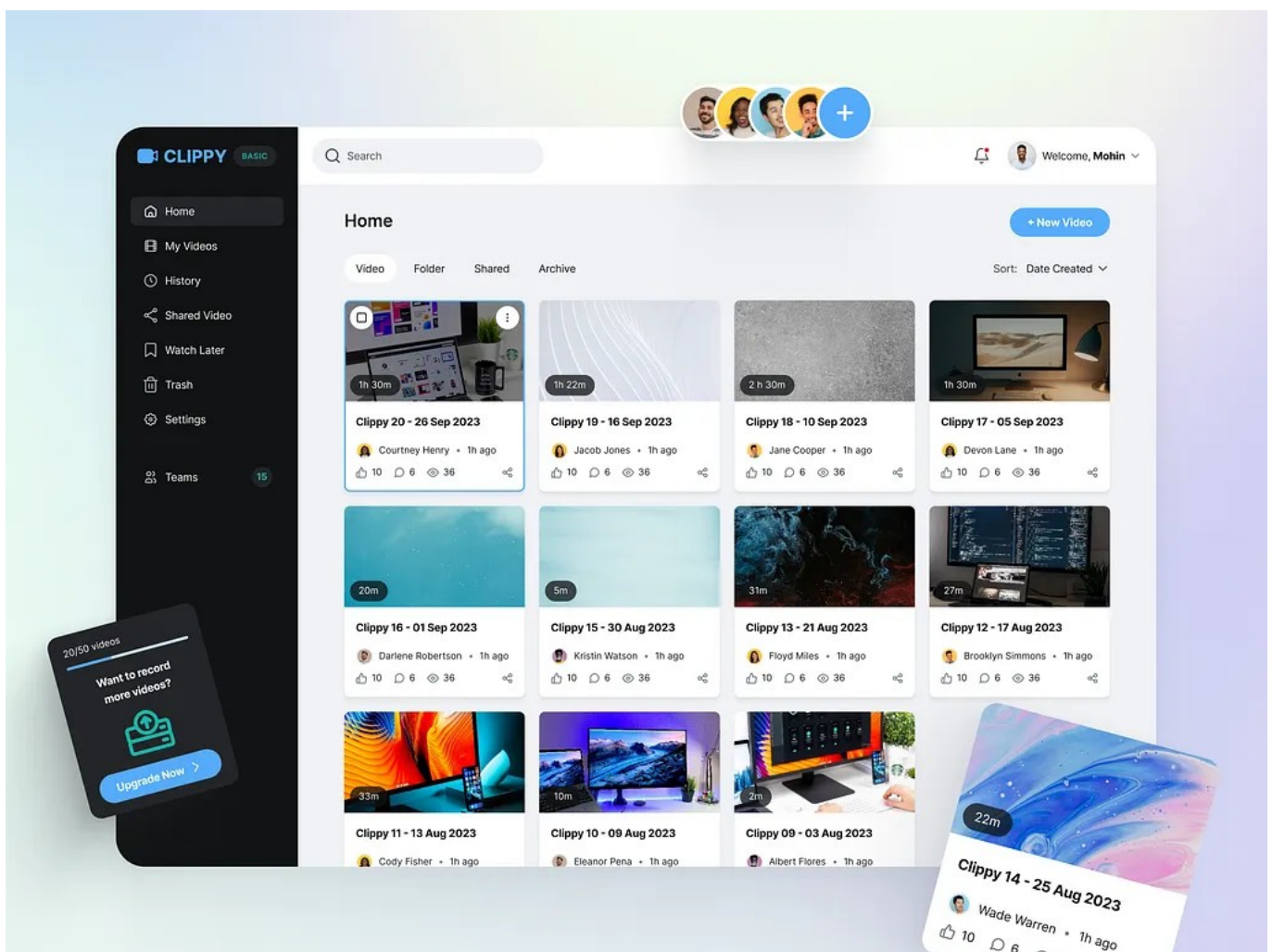
9. Collaboration: Work effectively as a team, clearly defining roles and responsibilities.

10. Documentation: Thorough documentation will improve maintainability and project success.

By implementing these changes, the project becomes feasible within the given constraints, offering a valuable learning experience without being overly ambitious. Remember, a well-executed, smaller project is significantly better than an incomplete or poorly implemented large one. The focus should be on delivering a functional, well-documented, and maintainable product that showcases your skills effectively.

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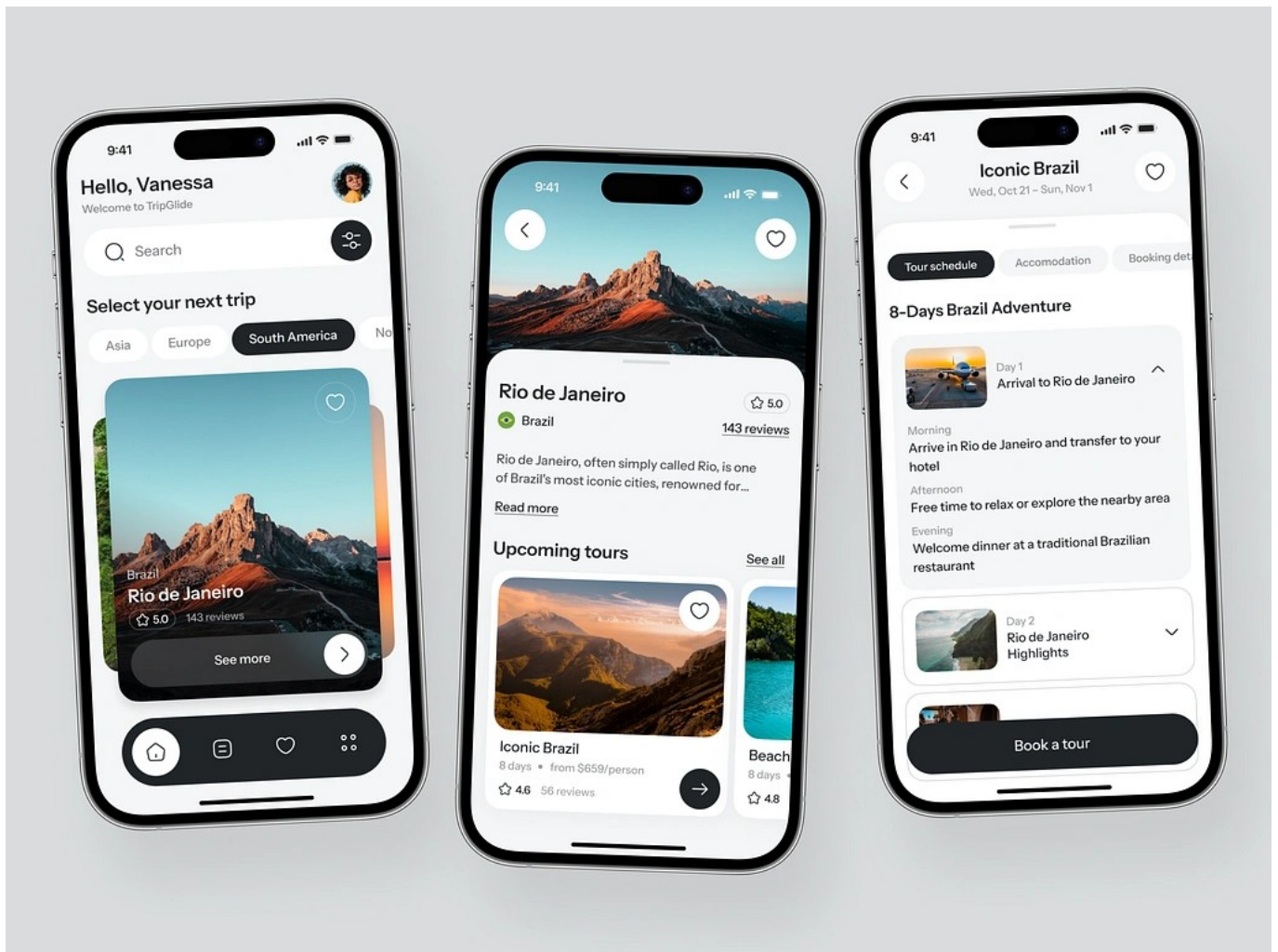
## UI Screens / Mockups



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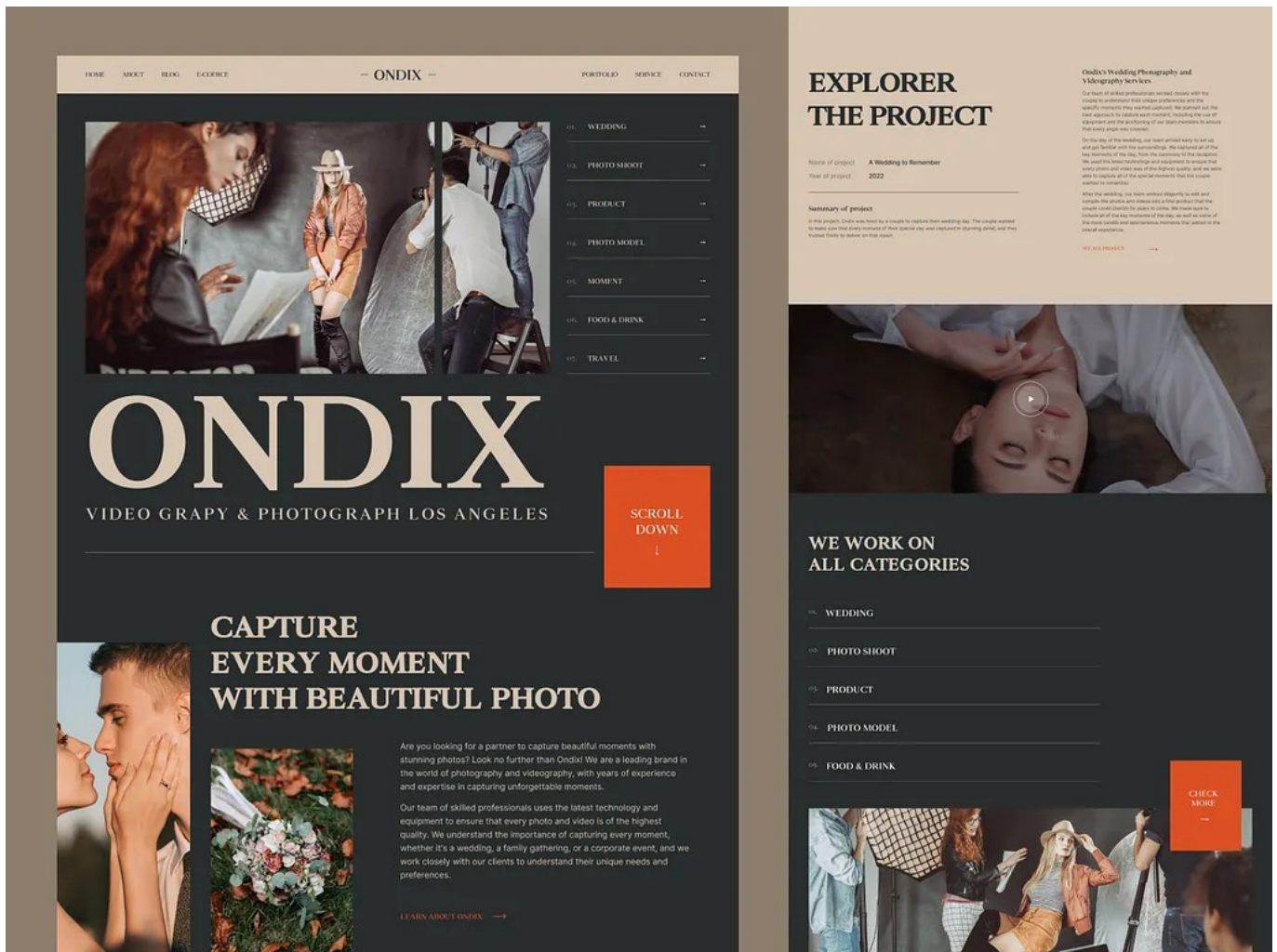




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