✅ **From `testrm1.pdf` — Automatic Frontend Generation from OpenAPI**

1. **What is the main objective of the framework proposed in the project?**

2. **List the key components involved in the architecture of the framework.**

3. **What are the inputs required for generating the frontend in the framework?**

4. **What frontend technology is used in the generated application?**

5. **How does the Populator module work in the system?**

6. **Explain the process of frontend generation described in the workflow.**

7. **What performance evaluation metrics were used in this project?**

8. **How was the usability of the generated frontend evaluated?**

9. **Mention three research works referenced in the literature review regarding frontend code generation.**

10. **What is the role of the FreeMarker template engine in the framework?**

✅ **From `FYP.pdf` — ReportMiner: AI-Powered Data Extraction and Query System**

1. **What are the main objectives of the ReportMiner project?**

2. **Which technologies are used for file parsing in ReportMiner?**

3. **What are the five phases outlined in the project roadmap?**

4. **What file formats can be ingested into ReportMiner?**

5. **How does the system handle natural language queries?**

6. **What is the purpose of Celery in the system design?**

7. **Describe the role of OpenAI APIs in the data extraction pipeline.**

8. **What is the difference between structured and unstructured data handling in ReportMiner?**

9. **How is the ingestion pipeline validated according to the plan?**

10. **What security recommendations are provided for deploying ReportMiner?**

From `testupload2.pdf` – *Development of an Exoskeleton Robot for Knee Rehabilitation*

◆ General & Intro

1. What is the aim of the knee exoskeleton project?

2. What are the main components considered in the exoskeleton design?

3. What are the benefits of using robotic exoskeletons in knee rehabilitation?

4. Which exercise was used to calculate torque requirements for the knee joint?

◆ Design & Engineering

5. What anthropometric data was used to design the knee exoskeleton?

6. What is the estimated torque requirement for the actuator?

7. What is the calculated Bowden cable tension in the system?

8. How was the shaft diameter determined for the knee joint mechanism?

9. What is the function of the polycentric 4-bar linkage in the design?

10. How was the motion capture data used in the mechanism design?

◆ Control Systems

11. What are the components of the control system in this exoskeleton?

12. What is the purpose of the PID controller in this system?

13. How does the high-level controller determine user movement intent?

14. What sensor types are used for muscle condition recognition?

15. What machine learning models are used in movement recognition?

◆ **Materials & Fabrication**

16. What material was ultimately chosen for the exoskeleton frame and why?

17. Why were deep groove ball bearings used instead of roller bearings?

18. How was topology optimization applied in the design?

◆ **Evaluation & Results**

19. How effective was the smart compression garment during rehabilitation?

20. What were the findings from the PID tuning simulations?

21. How was user feedback collected and interpreted in the project?

22. What was the final weight of the exoskeleton prototype?

◆ **Innovation & Gap Addressing**

23. How does this project address limitations in traditional 4-bar exoskeletons?

24. What makes this exoskeleton design different from prior work like HAL or KAFO?

25. How was therapeutic compression integrated into the design?