

From these aspects:

- A. Lack of experience
- B. Market niche
- C. Strong competition
- D. Underserved area
- E. Money loans with good clauses
- F. Subsidies offered by the State
- G. Previous training in the field of the app provided at the university
- H. Unstable market due to international conflicts
- I. Skilled development team
- J. Innovative features included in the app
- K. Established brand or market presence



Select those which are:

(there may be more than one or none; if your answer is none, write "none")

1. Strengths
  2. Weaknesses
  3. Opportunities
  4. Threats
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From these areas of project management:

- A. Integration
- B. Scope
- C. Schedule
- D. Cost
- E. Quality
- F. Resource
- G. Communication
- H. Risk
- I. Procurement
- J. Stakeholder

Select the one which is most closely related to:

5. Ensure the output is fit for purpose, meets the needs of the users and follows best practices.
6. Ensure the project work includes all elements required to complete the work.
7. Plan, estimate, manage and control project finances.
8. Coordinate activities across all project management areas and process groups.
9. Carry out purchasing and contracting as required.
10. Ensure the project is completed in a timely way.

From these user stories:

- A. The user can search for properties using a basic or advanced search with filters.
- B. All graphing and charting will be done using a third-party library.
- C. Up to fifty users should be able to use the application with a five-user database license.
- D. The user can undo up to fifty commands.
- E. The software will be released by June 30.
- F. The user can modify their password.
- G. The user will be prompted to save their work if they haven't saved it for 15 minutes.
- H. Elderly people should be able to report issues.
- I. The user can export data to PDF.



11. Select one which is difficult to test in an automatic way.
  12. Select one which includes technical details that are not valuable for customers or users.
  13. Select one which is too large and should be decomposed.
  14. Select one which is too short.
  15. Select one which is not related to the functionality.
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In the following cost estimation:

A	Direct staff	100.000 €
B	Indirect staff	12.000 €
C	Fixed costs	5.000 €
D	Variable costs	3.000 €

16. What is the percentage of overhead?
17. Where is the cost of electricity included?
18. Where is the cost of a secretary included?
19. Where is the depreciation of the equipment included?
20. If the estimated number of hours for the direct staff is 2.000, what is the final cost per hour including the overhead?

21. According to the following table, what is the value of C?

	Iteration 1	Iteration 2	Iteration 3
Story points at start of iteration	150	B	E
Completed during iteration	40	60	74
Changed estimates	+5	-10	+8
Story points from new stories	13	8	0
Story points at end of iteration	A	C	F



According to the following table:

Activity	Predecessors	Duration (days)
A		3
B		4
C	A, B	3
D	B	4
E	C	2
F	E, D	3

22. What is the estimated duration of the whole project?

23. Which activities are critical? (Do not include dummy activities in the answer)

24. How many critical paths are there?

25. What is the float of activity D?

According to the following table, using an 8-hour working day and fixed-work planning:

	Task	Work (hours)	Duration (days)	Predecessors	Resources
1	Purchase				
2	Shopping cart	16			John[50%]
3	Payment	16		2	John

26. What is the duration of "Shopping cart" (in days)?

27. What is the duration of "Purchase" (in days)?

28. How many hours is John expected to work in these activities?



Given the following list of user stories, with their estimated story points, priority and predecessors:

Story	Estimated points	Priority	Predecessors
A	10	M	
B	15	S	
C	10	M	
D	10	S	
E	5	S	
F	15	M	
G	5	C	
H	10	M	F
I	5	W	



29. Which stories would you include in iteration 1, if the estimated team velocity is 40 story points per iteration and you want to optimize velocity? (assume stories cannot be divided and no other constraints are considered)

30. Which ones would you include in the second iteration?