

CHALMERS

EXAMINATION / TENTAMEN

Course code/kurskod	Course name/kursnamn		
DIT046/DAT356	Requirements and User Experience.		
Anonymous code Anonym kod		Examination date Tentamensdatum	Number of pages Antal blad
DAT356-0001-YEL	April 13, 2022	11	Grade Betyg 5

* I confirm that I've no mobile or other similar electronic equipment available during the examination.
 Jag intygar att jag inte har mobiltelefon eller annan liknande elektronisk utrustning tillgänglig under
 eximinationen.

Solved task Behandlade uppgifter	Points per task Poäng på uppgiften	Observe: Areas with bold contour are to completed by the teacher. Anmärkning: Rutor inom bred kontur ifylls av lärare.
No/nr		
1	✓	8
2	✓	15
3	✓	10
4	✓	10
5	✓	8
6	✓	15
7	✓	20
8	✓	5
9		
10		
11		
12		
13		
14		
15		
16		
17		
Bonus: poäng		
Total examination points Summa poäng på tentamen	91	

PAT356-0001-YEL

Question 1

1.1 b-cf

3

1.2 b-d-e-f

2

8

1.3. a

1

1.4 d-e

2

CHALMERS	Anonymous code Anonym kod DAT356-0001-YEL	Points for question (to be filled in by teacher) Poäng på uppgiften (fylltes av lärare)	Consecutive page no. Löpande sid nr 2/11
			Question no. Uppgift nr 2

Question 2.

$$3,5 + 4 + 4 + 2 + 1,5 = 15$$

2.1. ① Hall of fame: To assume a famous ~~per~~ person who uses the system, what problems they will meet and how to deal with those problems.

Brainstorming:

- ② Brainstorming In a group, collecting every group member's ideas and get a conclusion. It allows ~~for~~ everyone speak freely.
- ③ Parallel world: It's a literal thinking way. Selecting a world ~~and~~ and to think about how to deal with current problems in this world.

④ Creativity Trigger

3.5

- 2.2: ~~not a prototype~~ 4/8
- ① Storyboards: is a Paper type. ~~It's about capturing the scenario for a persona and draw steps in frames or squares.~~ We would use it because it's fast, inexpensive and concrete, but we wouldn't use it ~~as~~ as it's unrealistic, distracting and awkward.

- ② Website (only with front-end stuff) is a Web-based type. ~~It's about implementing a website that only with front-end stuff.~~ We would use it because it's can be tested on any device, and it's the technical foundation. ~~It's a shortcut.~~ We wouldn't use it because it's hard to make it and it tends to inhibit creativity.

2.3.

- ① Affordances: The proper affordances exist ~~to~~ make desired actions possible.

4

- ② Signifiers: Effective use of signifiers ensures discoverability and ~~that the~~ feedback is ~~well~~ well communicated and intelligible.

2.4

- ① Minor problem: User ~~s~~ succeeds in task after ~~take~~ a short time (but it's still longer than expected)
- ② Medium problem: User succeeds in task after a long time.

2

2.5.

- ① Product, not process

1.5

- ② Concrete

Frågan 3.

Search info. (filtering by
search words, type of attractions, accessibility))

Schedule info.

Rating / reviews

Saved attractions info.

Attractions
(attractions)

Attractions info (activities,
prices, opening and closing times, accessibility)
Notification of updates of attractions
Ratings / reviews of others

Schedule info.

Approval of updates of attractions info
Approval of reviews / ratings info

Approval
of attractions
info. (viewed
of other attractions)

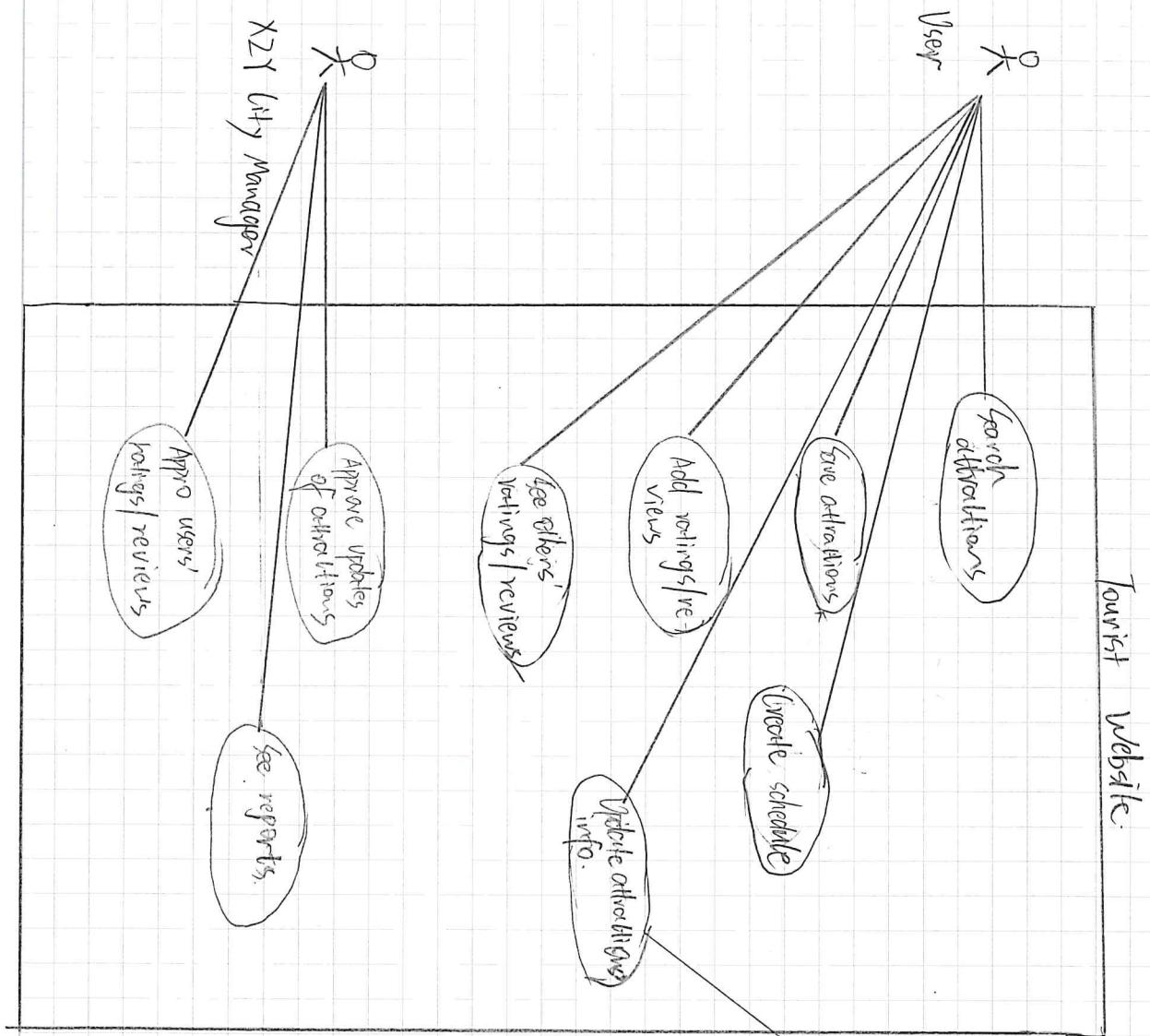
Updates
of attractions.
Info from webshop
and from user.

Attractions info (activities,
prices, opening and closing times, accessibility)
Notification of updates of attractions
Ratings / reviews of others

Approval of updates of attractions info
Approval of reviews / ratings info

A: 4
R: 6
10

Question 4



A: 4
U: 6 10

~~Question 5.~~

Use case: < Search attractions >



CHARACTERISTIC INFORMATION

Goal in context: Users want to search attractions by times, dates, accessibility, type.

Scope: Tourist website.

Preconditions: Users can access internet and use the right version browser, and right version phone.

Success End Condition: Attractions are shown to users.
Recommended

Failed End Condition: No attractions shown to users.

2

Primary Actor: Users.

Trigger: Users jump into search attractions page. and want to specify their preferences.

MAIN SUCCESS SCENARIO.

Step #1: Users enter their preferences (times, dates, accessibility, type)

Step #2: Users click on "done" design

Step #3: The corresponding recommended attractions are shown to users.

2.5

EXTENSIONS:

1. Users may not need to specify their accessibility (optional).

1. Users can use sound to specify their preferences, not by typing.

enter via voice?

1.5

SUB-VARIATIONS

1. Users enter the invalid date format, the search is cancelled.

Others?

1

8

Question 6.

15

SRS functional requirements:

FR1: The system shall provide attractions information that includes activities, prices, opening and closing times, accessibility)

FR2: The system shall automatically recommend attractions based on users' preferences (i.e., they search attractions by dates, times, type, accessibility)

FR3: The system shall allow users to add ratings/reviews regarding the attractions they have visited by.

FR4: The system shall allow users to review others' ratings/reviews regarding the attractions they visited by.

attractions)

SRS Non-functional requirements.

(e.g., XYZ city managers, employees at ✓

NFR1: The system should be secure, other cannot see the itineraries of users.

NFR2: The system should provide accurate information. At least an expert who works at attractions validate the content.

Domain assumptions.

DA1: We assume users, XYZ city managers, employees at attractions can access stable internet.

DA2: We assume that the Android/Apple phones used by users, XYZ city managers and employees at attractions should be within 5 years.

Constraints.

U1: The system should work on all Android/Apple phones within the last 5 years and all Windows/Mac browsers released within the last 5 years (e.g. Chrome, Edge)

U2: The system must be ready by July 2024.

Question 6

S

User Stories

US1: As a user, I want to save attractions and create a schedule for my visit so that I can see my schedule easily and can't miss it.

US2: As a XYZ city manager, I want to see the reports so that I can know which attractions are viewed most often and add to itineraries.

US3: As an employee at ^{the} attraction, I want to update attractions' information so that users can get notifications immediately ^{of updated attractions}.

US4: As a XYZ city manager, I want to validate the updates of attractions so that users can get ^{more} accurate information.

US5: As a XYZ city manager, I want to validate the users' reviews so that the unhealthy or ~~not~~ real reviews can be filtered.

Question 7.

Screen 1:

Entering your preference:

Dates: <u>MM/DD/YYYY</u>	Accessibility: <input checked="" type="checkbox"/> prams for children
Time: <u>:</u>	
Type of attractions	
<input checked="" type="checkbox"/> Zoo	
<input checked="" type="checkbox"/> Museum	
Done.	

10

2

Patterns: ① Input prompt (dates) : To tell user the date type they should input.

4

② Prominent "done" button: Making it easier to see I have done this step.

FR1: The system shall automatically recommend attractions based on users' preferences (i.e., they search attractions by dates, time, type).

FR2: The system shall provide which type of attractions I could choose.

4

3

Frågan 7.

10

Svar 2:

Saved attractions			
	Name	Date	Time
1	Amazing Zoo	06/05/2022	13:00
2	Beautiful gallery	07/08/2022	14:00

X → different color

2

Patterns:

Escape Hatch (top right): Make it easy to get out of this page and go to another page.

4

Row stripes: Using a table to show saved attractions to help users follow a row from left to right and back again, without confusing the rows.

Requirements:

FR1: The system should support users to review their saved attractions and its corresponding schedule (date, time) (name)

4

FR2: The system shall provide a map to let users easier to check how far is ^{attraction} from their location.

Question 8.

- ① You are a XYZ City manager and want to see the report which ~~the~~ attractions are viewed most often and are added to itineraries. ~~What~~ Would you get such information? ^{on.}
- ② You are a user and want to see your saved attractions so that you can get reminders and couldn't miss the visiting date. (Screen 2)
- ③ You are a user and want to ~~be~~ get attractions recommendations by entering your preferences (type, dates, times, accessibility). Could you find a way to do that? (Screen 1)
- ④ You are an employee and want to update ~~the~~ attractions information, could you find a way to do that?
- ⑤ You are a user and want to add ratings/reviews for attractions that they visited by. Could you find a way to do that?

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