

به نام خدا

اعضا گروه: احمد رضا یزدانی، امیر حسین زمانی لاری

Project name: A flight reservation system

Vision:

Problem Statement: We saw that there is a lack of flight reservation that has all the features necessary for easy and fast reservation of flight tickets, so we are making one.

Stakeholder Description: Air lines, and we also own the project because it's a startup.

Key High-Level Goals: To have a complete system for reserving flights, that will also help to boost the sales of tickets for the airlines.

System Context Diagram: *in the zip file

Functional Features: in our system we have:

- A login and account making
- Seeing all the flights with users limitations
- Buying a ticket the ticket for the given flight
- Seeing the history of all tickets the user has bought

Non-functional Features: Our system has Reliability, Availability, Portability, Performance , Usability, Extendibility, Reusability.

Fully Dressed Style Use case:

| Use Case Section | Comment |
|----------------------------|---|
| Use Case Name | Show tickets |
| Scope | - |
| Level | Both user goal and subfunction |
| Primary Actor | The user |
| Stakeholders and Interests | User, they want to see all the flight with the given limitation. |
| Preconditions | Don't have |
| Success Guarantee | The tickets that have the requirements. |
| Main Success Scenario | The user enters its requirements and the system show the flights that have them |
| Extensions | The scenario that there is no flight with the given limitation. |
| Special Requirements | Reliability, Availability, Performance , Usability, Extendibility, Reusability |

| Use Case Section | Comment |
|----------------------------|--|
| Use Case Name | buy tickets |
| Scope | - |
| Level | Main goal |
| Primary Actor | user |
| Stakeholders and Interests | User want to buy the ticket for flight that he has chosen. |
| Preconditions | Finishing show tickets scenario and having an account |
| Success Guarantee | The user will have his tickets |
| Main Success Scenario | The user fills his info, and successfully pays for the ticket |
| Extensions | The user doesn't fill the info correctly or don't have the money to buy it |
| Special Requirements | Reliability, Performance, Usability, Extendibility, Reusability |

| Use Case Section | Comment |
|----------------------------|--|
| Use Case Name | Make account |
| Scope | - |
| Level | subfunction |
| Primary Actor | user |
| Stakeholders and Interests | User have to make account so we can keep their info. |
| Preconditions | The user have to have a phone number |
| Success Guarantee | The user will have a verified account in our system. |
| Main Success Scenario | The user fills the info correctly, and verify it. |
| Extensions | The user doesn't fill his info correctly or won't verify it. |
| Special Requirements | Reliability, Performance, Usability, Extendibility, Reusability, Portability, , Availability |

| Use Case Section | Comment |
|----------------------------|--|
| Use Case Name | login |
| Scope | - |
| Level | subfunction |
| Primary Actor | user |
| Stakeholders and Interests | User have to make account so we can keep their info. |
| Preconditions | User must already have an account |
| Success Guarantee | The user will be logged in the system |
| Main Success Scenario | The user fills the info correctly. |
| Extensions | The user doesn't fill his info correctly . |
| Special Requirements | Reliability, Performance, Usability, Extendibility, Reusability, Portability |

| Use Case Section | Comment |
|----------------------------|--|
| Use Case Name | Show history |
| Scope | - |
| Level | Main goal |
| Primary Actor | user |
| Stakeholders and Interests | The user want to see his old tickets or regain a ticket if it is lost |
| Preconditions | User must already be logged in |
| Success Guarantee | The user will see all his bought tickets . |
| Main Success Scenario | The user logs in successfully, and push the show history button. |
| Extensions | The user doesn't log in correctly |
| Special Requirements | Reliability, Performance, Usability, Extendibility, Reusability, Portability |