# Для IT-специалистов

## Урок 6: Requirement Specifications (SRS)

🕐 Длительность урока: 60 минут
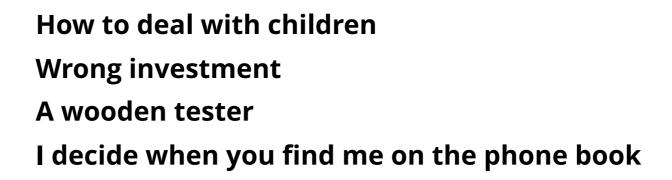
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# 1. Warm up

**Подберите заголовки**

**How to deal with children**

**Wrong investment**

**A wooden tester**

**I decide when you find me on the phone book**

1. To make people of London believe that the first escalator was safe manager of the London Metro hired a man called "Bumper" Harris with a wooden leg. His job was to ride the escalator up and down all day.
2. Thomas Edison made a fortune when created an electric light bulb but almost lost everything when invested in the cement furniture production.
3. To be the last one in the local phone directory one man from Birmingham changed his name to Zeke Zzzypta.
4. A teacher in the US was punished as she once made all the badly-behaved children stand in a line so that good ones could spit on them.

Keys:
1. a wooden tester, 2. wrong investment, 3. I decide when you find me on the phonebook, 4. how to deal with children

# 2. Vocabulary

**Изучите новые слова**

| | |
|---|---|
| **adjusted** - настроенный | **compatibility** - совместимость |
| **brief** - краткий | **form** - форма |
| **displayed** - отображаемый | **maintenance** - техобслуживание |
| **functional** - функциональный | **purpose** - назначение |
| **possible** - возможный | **requirements** - требования |
| **reliable** - надежный | **responsibilities** - обязанности |
| **carefully** - тщательно | **specification** - особенность |
| **backup** - резервная копия | **term** - условие |
| **beta test** - опытная эксплуатация | **cover** - описывать |
| **content** - наполнение | **edit** - редактировать |
| **database** - база данных | **establish** - устанавливать |
| **discretion** - усмотрение | **indicate** - указать |
| **disk quota** - дисковая квота | **itemize** - составить перечень |
| **domain** - домен | **launch** - запускать |
| **fixing** - исправление | **remove** - убрать |

- **SRS is**: a plan for development and operation
- **SRS synonyms are**: customer requirements / statement of work / terms of reference
- **SRS purpose is to**: establish the basis / provide info about costs and schedules / refine baseline
- **Useful phrases**: it is agreed / established that as appropriate / as a minimum

*It is agreed that the Contractor will provide maintenance services on regular basis. - Стороны договорились, что исполнитель будет предоставлять услуги техобслуживания на регулярной основе.*

*We are meeting to refine the baseline and to complete the final version of the customer requirements. - Мы встречаемся, чтобы улучшить основные параметры и составить финальную версию техзадания.*

*320 mb of free space for the website must be provided as a minimum. - Как минимум, должно быть предоставлено 320 мб свободного места для сайта.*

# 3a. How to

**Ознакомьтесь с информацией**

## 3b. How to

**Ознакомьтесь с информацией**

- **Structure**: introduction / overall description / specific requirements / appendices
- **Introduction**: purpose / scope / definitions
- **Overall description**: product perspective / functions / constraints / use cases
- **Specific requirements**: all the possible requirements = body of the document
- **Useful phrases:** identify / limit options, content, structure, product, external interfaces

*Overview is a section that identifies the product and describes the content and the structure. - Общее представление - это раздел, который определяет проект и описывает наполнение и структуру.*

*Anything that limits our options is described in the constraints. - Все, что как-либо лимитирует наши варианты действий, указано в разделе "ограничения".*

*All the possible requirements usually identify the body of the document. - Все возможные требования определяют главную часть документа.*

- **Correct**: up to the required standards for the quality / database integrity
- **Unambiguous and complete**: describe what is the future project created for
- **Consistent and detailed**: how it interacts with people, hardware and other external interfaces
- **Modifiable and traceable**: the one you can edit and control
- **Useful phrases**: imposed on an implementation / main considerations / operation environment

*Please, make sure that your SRS is up to all the standards imposed on an implementation. - Пожалуйста, убедитесь в том, что ваше ТЗ соответствует всем стандартам, обязательных к внедрению.*

*Don't forget to describe the operation environment of the future project. - Не забудьте описать рабочую среду будущего проекта.*

*The main consideration why people will use our program is for navigation. - Ключевым фактором использования нашей программы будет навигация.*

# 3c. How to
**Ознакомьтесь с информацией**

- **Ambiguity**: don't give too much or too little information that may not be verified
- **Requirements on users**: you can only assume what user will do
- **Unnecessary or invented terms**: avoid any extra terms if you can say it simple
- **Useless phrases**: never mention forward reference / contradiction / noise / silence

*You can't make a user do something, so try to assume what he or she will do with the application. - Невозможно заставить пользователя, так что пробуйте предположить, что он или она будет делать с помощью приложения*

*There can't be noise or silence in your SRS - give enough information on each of the points. - Не должно быть слишком много или мало информации в вашем ТЗ - давайте достаточно данных по каждому пункту.*

*Say it simple if you can and don't invent new terms! -Говорите проще, если есть такая возможность и не выдумывайте новые термины!*

## 3d. How to

**Ознакомьтесь с информацией**

## 4. Practice

**Выполните задания**

● **Выберите правильный вариант:**

01. It is *agreed / agrees / agreeing* that the developers must provide the website backup.

02. *Could / Cans / Coulds* you provide the info on costs and schedules?

03. Unfortunately, we can't *establishes / establish / establishing* the basis without the info.

04. We *would be / be would / am* happy to refine baseline of your program and do the beta test.

05. 3 servers *musting / musted / must* be provided as minimum.

● **Напишите правильную форму:**

06. The body of the document (**to give**) information about the requirements.

07. Please (**to identify**) the structure of your website before we itemize the content sections.

08. Your SRS (**to contain**) too much noise. Try to give brief information.

09. We (**to cover**) all responsibilities as appropriate at the meeting yesterday.

10. The main consideration why people regularly (**to use**) our program is for reading online.

● **Исправьте ошибку:**

11. Does you check the program compatibility with Windows every month?

12. Try to avoids any unnecessary details when describing the possible issues.

13. Ever mention forward references in your SRS.

14. You can only assume what our a user will do with the product.

15. It is agrees that we can edit the content.

**Keys:**

10. use, 11. do, 12. avoid, 13. never, 14. our user, 15. agreed.

1. agreed , 2. could, 3. establish, 4. would be, 5. must, 9. gives, 7. identify, 8. contains, 6. covered,

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9

# 5. Life story

**Просмотрите видео и выполните задание к нему**



📺 **The Wrong way to do Agile** ▸

Chet Wrong here with the wrong way to do Agile. Today, 1. (**a requirement**). You should write 2. (**a specification**) for all development projects. The more detail, the better.

Start with a marketing requirements document and a product requirements document. Maybe 3. (**to throw**) in a design document too. Now you are finally ready to start writing your 4. (**a story**). And remember if your story 5. (**to fit**) on a single card, then it is too short so keep writing. Don't be afraid to add an amendment if needed. And once everything is written down then there is no confusion.

— It says in 8.1.2.5.17 of the PRD that it's supposed to have a hover state.

— How did I miss that?

And most importantly, 6. (**to start**) coding until everyone is signed off on the specifications. That's the wrong way to do requirements.

**Keys:**

1. requirements, 2. specifications, 3. throw, 4. stories, 5. doesn't fit, 9. don't start

# 6. Phrasebook

**Ознакомьтесь
с фразами**

**All the requirements must be carefully stated in the body of the document.** - Все требования должны быть тщательно изложены в теле документа.

**Study the functional of the future product to refine baseline.** - Изучите функционал будущего продукта, чтобы улучшить основные параметры.

**The introduction will provide you with the details on the purpose of the website.** - Вступительная часть предоставит детали по цели сайта.

**The operation environment of the program is going to be the database.** - Операционной средой программы будет база данных.

**The following features are imposed on an implementation.** - Следующие характерные особенности обязательны к внедрению.

**One of the specification is 500 mb of disk quota as minimum.** - Одна из спецификаций - это 500 мб дисковой квоты, как минимум.

**Every part of the SRS should be up to the required standards for the quality.** - Каждая часть ТЗ должна соответствовать стандартам качества.

**Your SRS contains too many unnecessary terms.** - Ваше ТЗ содержит слишком много ненужных терминов.

**We would like a base for an online forum that we can edit and modify.** - Мы бы хотели основу для онлайн-форума, которую можно редактировать и модифицировать.

**The instruction on how the application will interact with hardware and other external interfaces is not given correctly.** - Инструкция о том, как приложение будет взаимодействовать с оборудованием и прочими внешними интерфейсами дана некорректно.

# 7a. Role play

**Выберите правильный вариант**

**Вы с заказчиком обсуждаете создание веб-сайта.**

1. **He: Great to see you again! Hope you are doing great.**
   *a. Hello! Oh, no, it's you again!*
   *b. Hello! Thank you, you too.*
   *c. Hello and goodbye. I don't want to talk to you.*

2. **He: I would like to ask a few questions on the SRS you sent me a day ago.**
   *a. Sure, go ahead!*
   *b. I thought so. That's why I must go right now.*
   *c. Somebody help me. He is talking again.*

3. **He: I couldn't find the hardware requirements.**
   *a. It's because you're stupid.*
   *b. It's because you're holding the document upside down.*
   *c. They are up to the required standards for the quality of any browser.*

4. **He: So they are not covered here, is that right?**
   *a. That is correct.*
   *b. That is Bently.*
   *c. That is why I don't work with stupid users.*

5. **He: And where does it say what is the future project created for?**
   *a. You can find on Google!*
   *b. You can ask your mother.*
   *c. You can find it in the purpose section.*

## 7b. Role play

**Выберите правильный вариант**

6. **He: Oh, sure, how did I miss that. Where can I read about the content?**
   *a. The general idea is given in the "overview".*
   *b. Wow, you have red hair!*
   *c. Wow, you have some ketchup on your shirt.*

8. **He: Thank you. Just one more quick question about the option limits.**
   *a. Sure, feel free to ask.*
   *b. Where is my mp3-player?*
   *c. I didn't mean I want to answer it.*

10. **He: Thanks again for the explanation. I have no more questions.**
   *a. I hope I'll never see you again.*
   *b. It was good meeting you!*
   *c. I've just deleted your phone number!*

7. **He: Sorry about such questions, this is our first time making a website!**
   *a. Don't worry, I'm not listening to you.*
   *b. Don't worry, I don't care.*
   *c. Don't worry, I am glad to help.*

9. **He: The catalogue must have constraints before you register. Can you add it to SRS?**
   *a. No problem, it will be covered in "functions".*
   *b. No, never ever will I do that.*
   *c. No time to explain, just no.*

**Keys:**

1. a, 2. b, 3. c, 4. a, 5. b, 6. a, 7. c, 8. a, 9. a, 10. c.

# 8. Game

**Вставьте пропущенные предлоги**

1. A good marriage lasts ____ ever. A bad one just seems to.
2. Bulldog for sale: Will eat anything. Very fond ____ children.
3. Some hotel businesses are so bad that they steal _____ their guests.
4. Hello! I came to tune your piano. - But I didn't send ____ you! - Your neighbours did.
5. Put your money ____ oil! - You are crazy. Do you want oily money?

A. for
B. in
C. for
D. from
E. of

Keys:

1. for, 2. of, 3. from, 4. for, 5. in.

# 9. Discussion

**Ответьте
на вопросы**

- **Have you ever had to write an SRS?**
  *Yes, I have / No, I haven't. I often / never / rarely / always   write*

- **If yes, what was the SRS for? Give details.**
  *It was an SRS for... (app / website, etc.)*

- **Is it possible to complete the project without an SRS?**
  *Yes, it is / No, it is not because...*

- **Have you ever had any problems because of the bad SRS? What was it?**
  *I often / never / rarely / always use it... when...*

- **Have you had to write an SRS in English before?**
  *Yes, I have / No, I haven't, it was*