HOW TO DEVELOP YOUR PROJECT FROM IDEA TO ARCHITECTURE DESIGN IN 50 MINUTES
All about security

25B
Security Transactions Daily

1.3B
Users Protected

300M
Threats Blocked Daily
Androidpit - Biggest Android Portal in Europe.

Supercat - content marketing agency providing tailor-made solutions for tech brands.
What’s in the Talk

1. Basic concepts
2. Visualization of the idea
3. Visual Style
4. Object-Oriented Analysis and Design
5. Conclusions
Dive into Basics
What is Design?
Design

Wikipedia is saying:

"Design is the creation of a plan or convention for the construction of an object, system or measurable human interaction (as in architectural blueprints, engineering drawings, business processes, circuit diagrams, and sewing patterns)."
What is Visual Design?
Visual design

Wikipedia is saying:

"Visual design is the design working in any media or support of visual communication."
What is Software Design?
Software design

Wikipedia is saying:

"Software design is the process by which an agent creates a specification of a software artifact, intended to accomplish goals, using a set of primitive components and subject to constraints."
What is Architecture?
Architecture

Wikipedia is saying:

"Architecture is both the process and the product of planning, designing, and constructing buildings or any other structures."
What is Software Architecture?
Software architecture

Wikipedia is saying:

"Software architecture refers to the high level structures of a software system, the discipline of creating such structures, and the documentation of these structures."
Building Software Architecture is always about trade-offs.
## List of System quality attributes

<table>
<thead>
<tr>
<th>Accessibility</th>
<th>Adaptability</th>
<th>Availability</th>
<th>Usability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serviceability</td>
<td>Reliability</td>
<td>Performance</td>
<td>Supportability</td>
</tr>
<tr>
<td>Portability</td>
<td>Scalability</td>
<td>Maintainability</td>
<td>Predictability</td>
</tr>
</tbody>
</table>

More information
Let’s start!
"Job swap" Idea

We’ve had house swap and wife swap - now job swapping is set to become the latest trend.

More information
User Types

Unregistered User

Registered User
Unregistered User. Probably new to the idea.

- Immediately understands the purpose of the Web Site;
- Can try the service at once;
- Can get a clear explanation about how the Service works;
- Can register if got interested in one of the Offers;
- Can sign up for the Newsletter in case no matching Offer was found.
Registered User. Probably has already applied for a Swap.

- Can see the Status of his/her Application/-s;
- Can see Suggestions and apply for more Swaps;
- Can edit his/her Profile;
- Can contact the Swap Partners;
- Can change the current Application (Cancel, Discuss the Details etc.)
How to decide on style selection?

1. Mood
   (keywords, associations with the project)

2. Target Audience
   (define idea’s target audience)
Job swap

1. Mood
   - business
   - experience
   - fun
   - life change

2. Target Audience
   - working people
   - proactive people
   - adventurous people
Visual Design
Visualization of the idea
Website Wireframes

A visual guide that represents the skeletal framework of a website.
JobSwap Website Wireframes

Unregistered User
Great headline that describes the idea in a few words

Try “Designer”

Try “Berlin”

Find a Swap
How JobSwap works

Step One
Step one awesome text coming here for you my dear listeners and other bla bla bla bla placeholder text.

Step One
Step one awesome text coming here for you my dear listeners and other bla bla bla bla bla placeholder text.
Hot Jobs

Dance Teacher in Berlin

Nice-to-have Skills:

- Self-motivation
- High energy level
- Something else
- Something else
- Something else
- Something else
- Something else

Sign up to try a Job
JobSwap Website Wireframes

Registered User
Your Applications

**Dance Teacher in Berlin**

- Self-motivation
- High energy level
- Something else
- Something else
- Something else
- Something else

**Status:** Approved
Visualization of the idea

Visual style:
Target Audience
Mood and Spirit
Colors, Typography, Images, Icons
Visual style examples
BUILDING A NATIONAL WORKFORCE

JOIN THE WORKFORCE REGISTER
Stay with Locals and Meet Travelers
Share Authentic Travel Experiences

Join with Facebook
Join with Email
Meet the new Meetup

Introducing a brand new way to do more of what’s most important to you.

Text me the link

Standard SMS rates may apply.

Download on the
App Store

GET IT ON
Google Play
The power of overcoming fear
Everything you need to know about fear and how to overcome this feeling
Reading duration: 4 minutes
From the collection Life
Psychology behind the colours
Red is for energy, passion and danger

Orange is for creativity, youth and enthusiasm

Yellow is for happiness, hope and spontaneity

Green is for nature, growth and harmony – but also wealth and stability

Blue is for calm, trust and intelligence

Purple is for luxury, mystery and spirituality
Black is for power, elegance and sophistication

White is for purity, innocence and minimalism

Gray is for professionalism, formality and conventionality

Brown is for wholesomeness, warmth and honesty

Pink is for femininity, playfulness and romance

Multicolor is for fun, diversity and optimism
Typography
Here is an example of serif font
Here is an example of sans-serif font
Here is an example of handwritten font
Here is an example of decorative font
JobSwap Website Design
Great headline that describes the idea in a few words

💡 Try “Designer”
📍 Try “Berlin”

Find a Swap
Step One

Join the community of adventurous people, craving for new experience in their daily routine. Find a job you would like to try for one day and tell about what job experience you can offer instead.

Step Two

Think about something you always wanted to try. Except challenge and leave your comfort zone just for one day.
Dance Teacher in Berlin

Nice-to-have Skills:

• Self-motivation
• High energy level
• Verbal and written communication skills
• Attention to detail
• High work standards
• Problem solving
• Decision making
• Organizing and planning
“I always dreamt to make tea...”

A great job title typically includes a general term, level of experience and any special requirements. The general term will optimize your job title to show up in a general search for jobs of the same nature.

The level of experience will help you attract the most qualified applicants by outlining the amount of...

Anna Mustermann
Photographer

Read Story
Free Graphic Resources

Vector graphic, stock photos
freepik.com

High resolution Images
unsplash.com

Icons
thenounproject.com

Prototyping
figma.com
Object-Oriented Analysis

- Simplified
- USE CASE
- Case: User
- Model of system
- Database (stores user info)
- User
- Registered user
- Annotation
- Command
The primary tasks

- Find the objects
- Organize the objects
- Describe how the objects interact
- Define the behavior of the objects
Object-Oriented Analysis Tools
Example
UML. Use case diagram
USE CASE. Actors: Unregistered User, Registered User.
Case: User is searching a new opportunity.

1. Entered City
2. Checked all available job swaps
3. Choose one interesting job swap
4. Click "Apply for Swap"
   - registration form
     - non-registered user
     - registered user
5. Add more information about user's job desired swap
6. Confirm application
7. Add more information
8. Confirm application
What are the main components?
Conceptual model

Main Components:
- User
- Job
- Job swap offer
- Application
- Results of application
- ...
UML Components diagram
Users

User

Submit an application

Application

Sign-in/ Register

Submit a job

Job

Applications

Jobs
Let’s make it simple
Simplified

- User
  - Application
    - Results of Application
  - job
C4 Model.
Diagram of the app
C4 Model of system

Database
(stores user info, jobs, applications, results)

\[ R/W \text{ to/from db} \]

Sign-in/ Register

Submit a job

Submit an application

Form offer on swap for user

Single-page application
(provides all the functions of job swap service)
Object-Oriented Design
The input for object-oriented design is provided by the output of object-oriented analysis.
Questions?
Keep in touch

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