

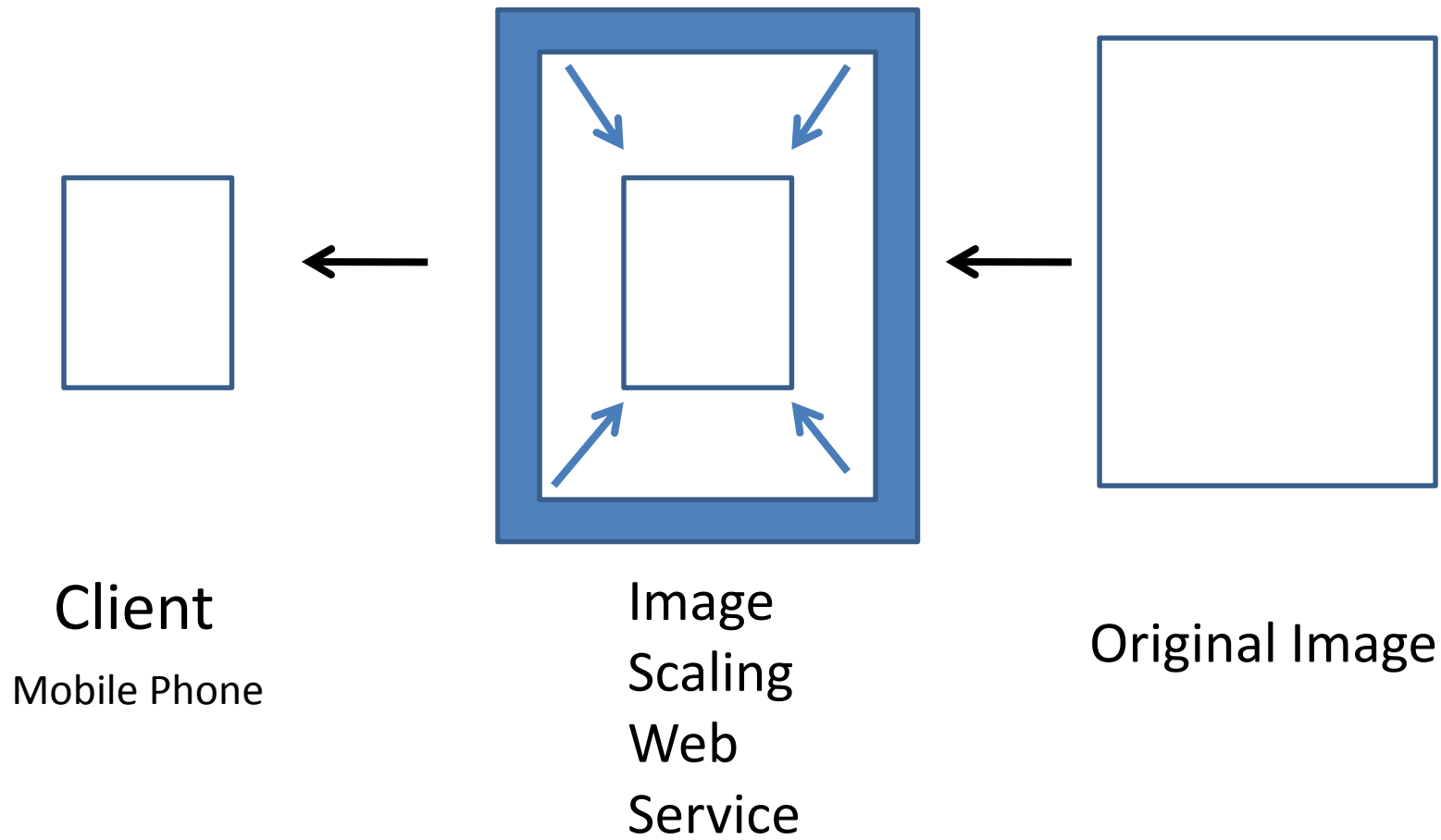
Application Development for Mobile and Ubiquitous Computing

Image Scaling Web Service First Presentation

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- .Nearly all front ends in the internet contain images of different size
- .But implementing image scaling functionality with respect to the aspects of scalability, efficiency and variety of client sizes and connections available, is difficult
- .In the century of green-IT cost reduction is not only necessary for the vitality of businesses but for marketing
- .The possibility of reuse of an image scaling functionality for a huge number of image-providers comes along with great advantages but big problems, too

- .Shorter loading-time
- .Support for a huge number of different formats
- .Speeds up enforcement of innovative technologies
- .Provides a flexible component for developers
- .Less consumption of energy
- .Less costs for companies



- .Complex image management
- .Huge disc-space-consumption
- .Abuse of the service by others
- .Back-button problem
- .Performance lack on user-peaks

- .A database supported look-up-table for already calculated images or an object-oriented approach
- .Limitation of disc-space-usage per image provider
- .TAN-process
- .TAN-Life-Cycle
- .For further studies :)

- .Web-services based on Java
- .Axis framework
- .Spring framework ?
- .Apache Tomcat as server-environment

- .Web-client based on Java (optional)

- .Mobile-client based on Android sdk

.SOAP

.Attachments on SOAP-Messages

.Different interfaces for the service (Clients and normal Web-Pages)

- .Image scaling and delivery over SOAP
- .Provider registration
- .TAN – process
- .Service customization (optional)
- .Interface for standard web-pages (optional)
- .Cost calculation (optional)
- .Payment process (optional)
- .Service scaling (optional)
- .Web-client (image-provider)
- .Web-client-extension (image-consumer) (optional)

- .Mobile-client (image-consumer)