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Mobile Solutions: J2ME Case Studies

Video Sharing Application

The goal of the project was to develop an embedded client application for a video sharing website, which would perform the following tasks:

- video capture
- video management and viewing on the handset
- upload to video sharing website
- parameter management on the website

DataArt designed an application that allowed video sharing with J2ME-enabled mobile devices: video creation, playback, and upload from a mobile phone to a portal, with additional editing of sharing parameters and groups after the upload.

The Midlet was created to work on a specific model of mobile devices (SonyEricsson W880), with the following features provided by the client:

- video recording by a mobile phone camera (allowed sound recording)
- customized user interface (with proprietary design colors, buttons and icons)
- upload of video files to a server in a background mode

Technical Highlights

The process of uploading video files to the server is performed in the background mode without interrupting the regular use of a handset.

The application uses the intermediate proxy server to upload video to the production server, where video data transfers partially to the proxy server and then to the portal server. This architecture allows bypassing the usual MNO internal limitations on the size of files which can be uploaded at once.

Technologies

J2ME

Industry

Mobile Technology

Project Timeframe

2 months

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Push E-mail Client

DataArt developed an e-mail client and server application that allow push e-mail functionality on java-enabled handsets. The e-mail client has a rich user interface, allowing to view, attach and save images; supports numerous user accounts, and comes pre-configured for most popular e-mail services (Gmail, Yahoo mail, Hotmail). A push e-mail proxy server supports clustering and load distribution.

Technical Highlights

The application was developed using cross-platform J2ME libraries and released on numerous J2ME phones.

Technologies

J2ME, Celsius cross-platform toolkit

Industry

Mobile Technology

Project Time Frame

6 months

Integration

Mail services

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