University Mohammed V

FACULTY OF SCIENCES

Lab manipulation

Android services

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IntentServive

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Mobile and cloud computing

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Introduction

IntentService is a base class for Services that handle asynchronous requests (expressed as android.content.Intents) on demand. Clients send requests through android.content.Int ent) calls; the service is started as needed, handles each Intent in turn using a worker thread, and stops itself when it runs out of work.

This "work queue processor" pattern is commonly used to offload tasks from an application's main thread. The IntentService class exists to simplify this pattern and take care of the mechanics. To use it, extend IntentService and implement onHandleIntent(android.content.Intent). IntentService will receive the Intents, launch a worker thread, and stop the service as appropriate.
All requests are handled on a single worker thread -- they may take as long as necessary (and will not block the application's main loop), but only one request will be processed at a time.

In this lab we create an <u>activity</u> that starts the <u>IntentService</u> which will post the result will be posted as a system-notification. The user asks for the N^{th} prime by clicking on a button and the application returns its value. Application's functionalities are given in comments.