



Application Development for Mobile and Ubiquitous Computing

Seminar Task Final Presentation

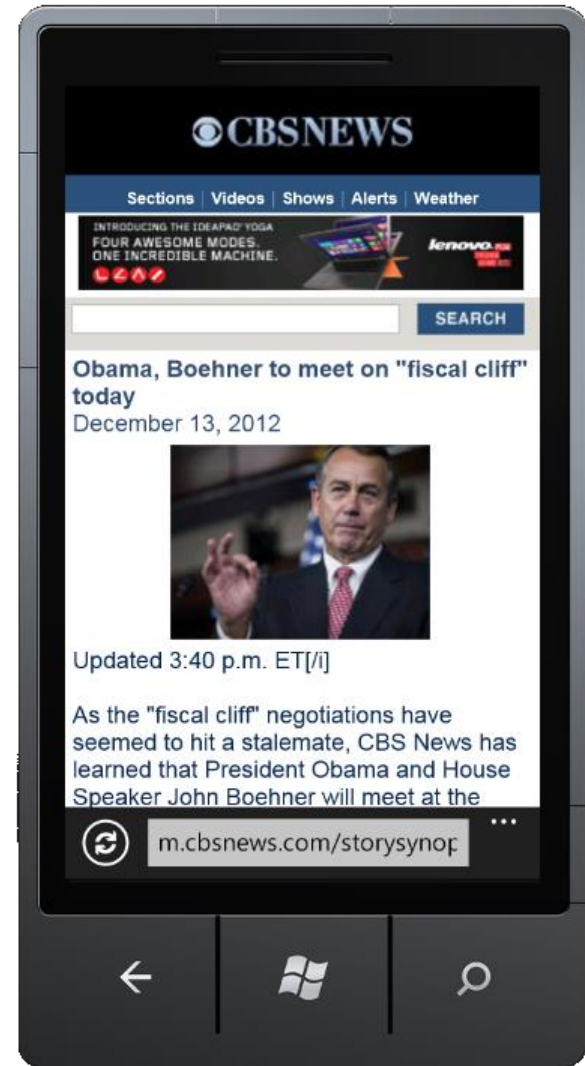
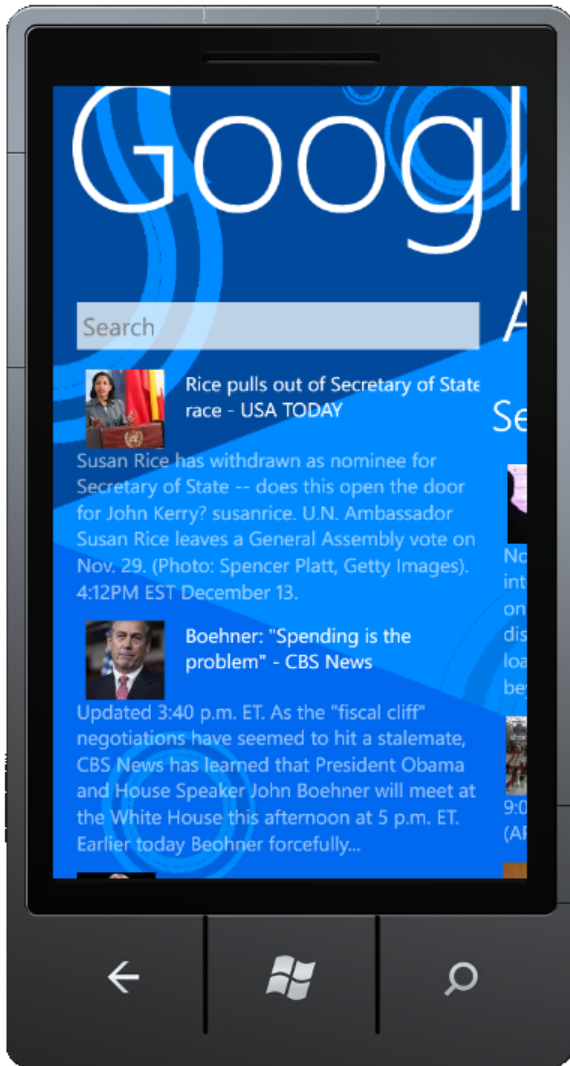
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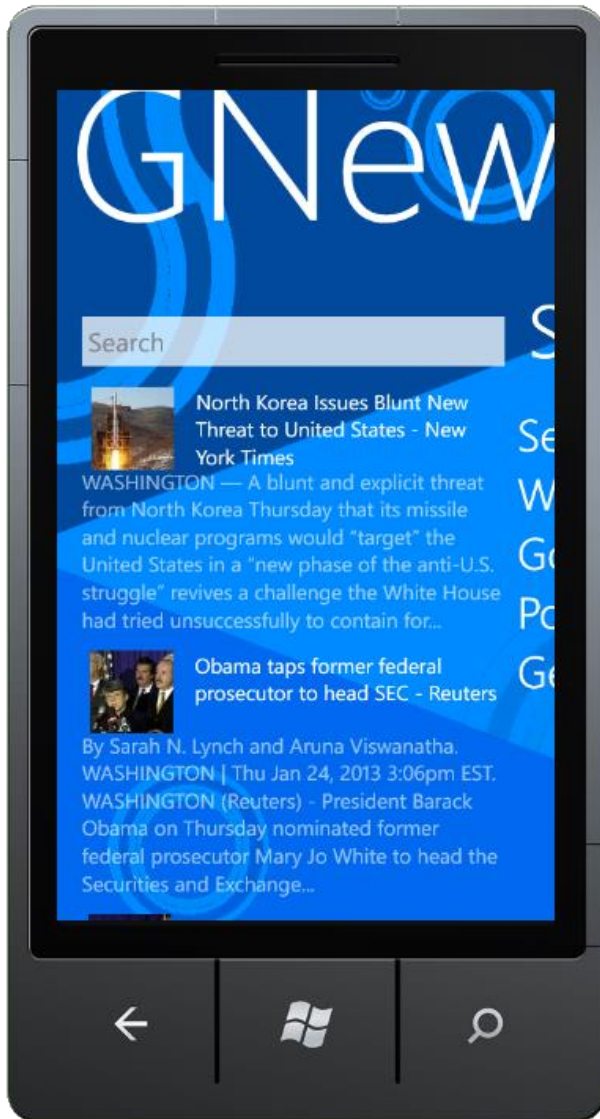
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- GNews - Google News Client for Windows Phone
 - Users want to read news everywhere
 - Users don't want to read all in a row but only their personalized preferences
 - Google News Service can provide personalized news by keywords
 - There are still no similar application in Windows Phone Store

- Prerequisites:
 - Download and install application from Windows Phone Store;
 - Create user's news preferences in app's settings using key words, e.g. "Security", "Windows Phone", "Google", "Politics", "Germany" etc.;
- Use cases:
 - Read Top news on the first screen;
 - Explore all news sections on the second screen
 - Read personalized news of selected section on the third screen
 - Search news

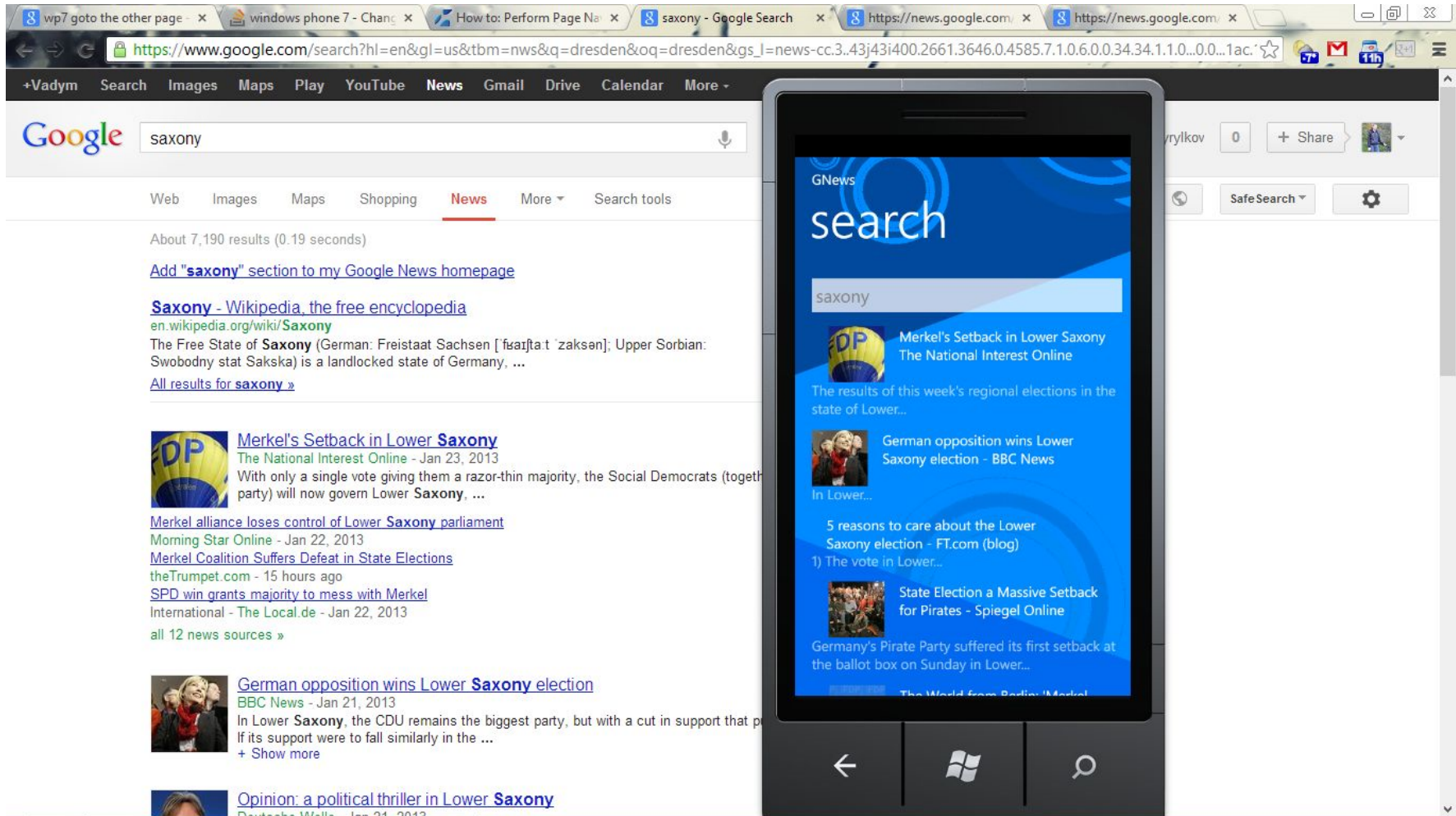
- Hardware
 - CPU: 800 MHz
 - RAM: 256 MB
- Software:
 - Windows Phone 7.1 or higher
 - Windows Phone 8
- Internet Connection





- News are separated by sections
- There are displayed name, description and image for every news on all screens
- News are downloaded asynchronously (one by one)
- XML data are saved in isolated file storage





The image shows a desktop browser window with a Google search for 'saxony' in the News tab. The search results include several news articles about the 2013 state elections in Lower Saxony, Germany, such as 'Merkel's Setback in Lower Saxony' and 'German opposition wins Lower Saxony election'. A tablet in the foreground displays a mobile version of a news search interface with a blue background and the word 'search' in large white letters. The tablet screen shows a search bar with 'saxony' entered and a list of news snippets, including 'Merkel's Setback in Lower Saxony' and 'German opposition wins Lower Saxony election'.

- Contributions
 - The first WP7 application for reading news that supports Google News Features;
 - Sustained Microsoft design language (Metro UI);
 - Fast and intuitive UI;
 - Perfectly work with unstable connections.

- Limits and issues:
 - Display news in real-time;
 - Support offline mode;
 - Unstable network connection and low bandwidth;
 - 800×480 screen resolution;
 - Search hardware button access from applications locked by vendor;
 - .NET Framework in Windows Phone SDK 7.x is limited
 - Google News Search API is deprecated → no sync preferences + sections with multiple keywords

Thanks for Attention!