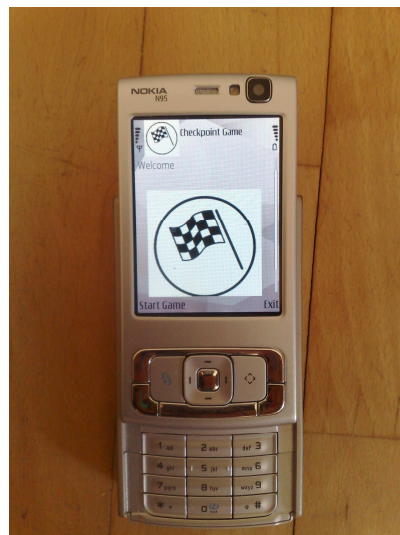


A Checkpoint Game

Mobile Phone Programming Course - Spring 2009

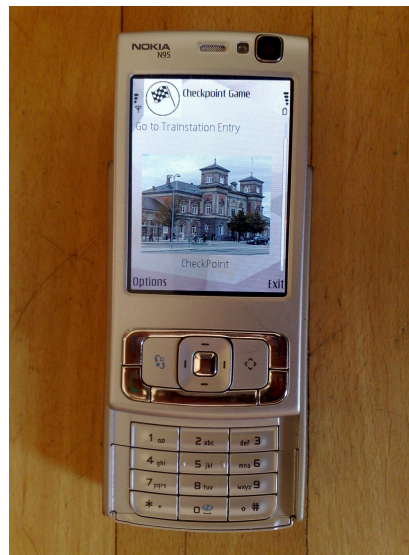
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The aim of this project is the implementation of a game that uses the current location of the user in order to advance further, through different checkpoints. The “battlefield” is the central part of Aalborg, and the objective for the user is to be the first among other players to reach the finish point which will be revealed as a final checkpoint. The first three players that arrive at the destination will receive a prize from the organizer.

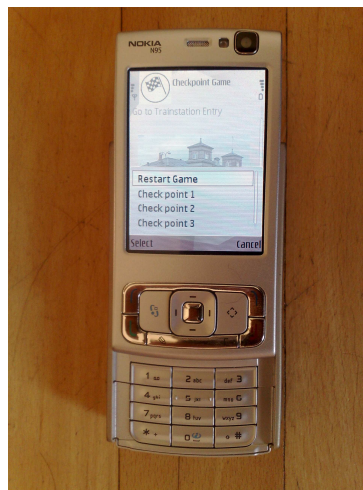


The game starts when the user reaches the first point mentioned at the beginning of the application.

If the user is within the area of the checkpoint, after he pushes the check button the game will show him a picture with the next location and a short description of that place. The location of a checkpoint equals an area with the radius of 15-20 meters because of the fact that the location may vary depending on the GPS performances and the multipath effect.



The user can always exit the application and check the location of the next checkpoint over the Google Maps application on the phone, and then return in the game at the point where he left it to check whether he has reached the new location or not.



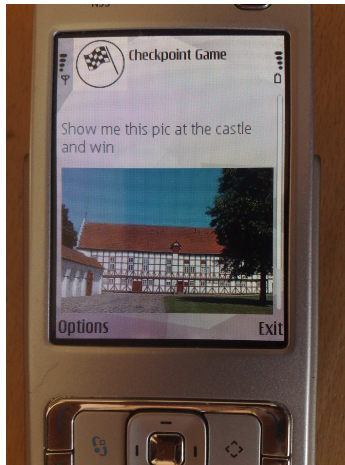
The only way to start over again is to select the "Restart" option in the options list, which will ask the user to go back to the first checkpoint

and will reset the memory used for reloading the points when exiting the application.

As the final point is revealed and the last picture shown, the player will have the task to bring the picture at the destination shown in order to verify that he has indeed passed through all the checkpoints.

The game can further be enhanced by the use of a map inside the application, which will point out the location of the next checkpoint so that the user can see the way to that point on the map.

If we include a map the application can also be used as a way to visit a city, like a guide with the most interesting parts to be seen, with a short history of each place.



Thank you for spending the time on reading the description of the application and if you enjoyed it you can test it on your own phone with your friends.