





















Fig. 15. Route navigation screen and location details screen

The user has a possibility to get a list of recommended and personalized routes by entering a text query and/or setting the desired duration of the route [11].

## VI. CONCLUSION

The new intellectual system for walking routes generation and recommendation has been proposed and implemented. Since the development process has covered everything starting from data collection to the user experience on mobile application designing, it was manageable and continuous.

The system developed can provide an extensive set of possible routes for Saint Petersburg as it contains information about all attractions and famous places to visit and is able to generate routes based on user preferences. This system takes durational, positional and culturological aspects into consideration to offer a route to the end-user and covers the majority of sets of preferences to avoid conflicts of interests while traveling in groups.

The system aims to provide the optimal route possible by either creating completely new routes from the very beginning or modifying existing ones to fit the user requirements.

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