

EECS 22L: Taxi Cab Alpha Release

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The third deliverable in the taxi project is the alpha version of the Taxi Management program for the user, as well as the corresponding alpha version of the program source code and documentation. While certain shortcomings are expected for an alpha version (e.g. routing is not optimal, accounting is inaccurate or absent, it sometimes crashes, and/or several of the optional features are incomplete), the deliverables should give a good impression of the state of the implementation and provide an early "preview" of what the final release will be.

For this submission, the client and taxi modules have the greatest weightage. A significant implementation of these two modules is expected for alpha release.

Note: You can update your previous software specification and include it in this submission to make up for the credit lost due to the lack of two software architectures (one for the server, the other for the client) and details of communication protocol.

For full credit (100%), your package should have the following minimum file hierarchy:

User/Customer Package (Taxi_Alpha.tar.gz)

- **README** // author, version, date, general instructions ...
- **COPYRIGHT** // author and copyright
- **INSTALL** // installation instructions
- **bin/** // binary directory
 - *taxi* // the executable program
- **doc/** // documentation directory
 - *Taxi_UserManual.pdf*

Source Code Package (Taxi_Alpha_src.tar.gz)

- **README** // author, version, date, general instructions, ...
- **COPYRIGHT** // author and copyright
- **INSTALL** // installation instructions, just let the user type `make` is enough!
- **Makefile** // top-level, tool-specific Makefile, should support: `make`, `make test`, `make test-gui`, `make test-comm`, `make clean`, `make tar` (compress the source code package)
- **bin/** // binary directory, when the user types `make`, the executable or its symbolic link should be generated here, as well as logs
- **doc/** // documentation directory
 - *Taxi_UserManual.pdf*

- *Taxi_SoftwareSpec.pdf*
- **src/** // source directory, with all source code, test files and Makefile
 - *Makefile* // lower-level Makefile for sources
 - *taxi_server.c* // maybe other modules and header files: *taxi_client.c*, *config.c*, *types.h*
 - *test_comm.c* // check the communication between client and server for different types of requests
 - *test_routing.c* // check the optimality of routed paths given certain number of customer requests
 - *test_accounting.c* // check accounting module's functionalities
 - *etc.*

Notes:

README example: This is a alpha version taxi software, to install, please type "make", for more detailed instructions, refer to the user manual.

INSTALL example: Type `tar -xvzf Taxi_Alpha_src.tar.gz`, then `cd Taxi_Alpha_src`, then `make`.

The above is fine. Keep **README**, **INSTALL**, **COPYRIGHT** brief. Guide the user to refer to the user manual or the developers to software spec for more details.

You can add other folders to your package if necessary, such as GUI libraries, resources (images/fonts/maps), etc.