

Screens are divided into three core components: “Booking”, “News”, “Rooms” and “TrainSchedule”.

“Booking” acquires data from Exchange and data fra all rooms on RUC. “News” are acquired from a Wordpress database and created users have the permissions to delete and add data. This means that imt.ruc.dk has one instance of Wordpress operational. The whole left side of the screen contains functionality for the department and is common for all of the 5 screens throughout the buildings 2, 8, and 9. This is maintained by the administrative staff from IMT.

Right side of the screens shows “TrainSchedule” (through Rejseplanen API). Wordpress contains widgets that extracts the correct data, fx the Rejseplanen area uses this URL = <http://imt.ruc.dk/rejseplanen/departures.php> and will refresh once a minute.

Another Widget extracts data for “Rooms”. Everything is PhP and runs on the server imt.ruc.dk. Danish “æøå” in room names are parsed through Json.

Each screen is connected to a Raspberri Pi. Once booted, the Raspberri initiates a sleep timer to make sure that Wifi can be connected. After the sleep timer, a shell script will open the Epiphany browser to a particular website for each screen (determined by location as they are building specific), fx <http://imt-ruc.dk/info/bygn-08/>. A crontab script refreshes the browser every 3 minutes and also checks for Wifi status.

You can access the machines through ssh and also maintain packages through Debian (apt-get or aptitude). All machines are monitored using Nagios Open Source Infrastructure surveillance. All machines connect to a special info-monitor network that does not require a single-sign on login.