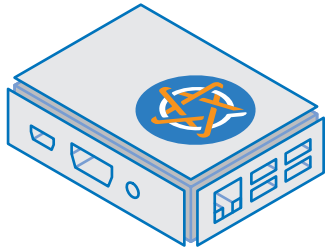


LearnPi

Low Cost Offline Content Deployment System



Problem Statement

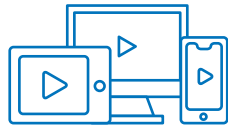
Quest, through its mission for tech enabled self-learning, helps each learner access digital curriculum in a seamless way. For over a decade, Quest has been implementing education technology based programs in places with limited or no internet connectivity. Apart from access to internet, one of the other deterrents to scaling such programs is the cost of high-end servers for deploying content in vocational training ecosystems.

Designed Solution

We designed a platform called Quest Learning App that hosts all our learning materials and provides student learning data and analytics.

LearnPi server is a low-cost computer that integrates Quest's Learning Application, for it to be deployed in areas with low or intermittent access to internet. LearnPi is developed using on an Open Hardware board called RaspberryPi—a small, low-cost computer for enabling computer based learning.

Features



It can deploy digital content for more than 40 devices at the same time (Desktops, Laptops, Tablets, Mobiles etc)



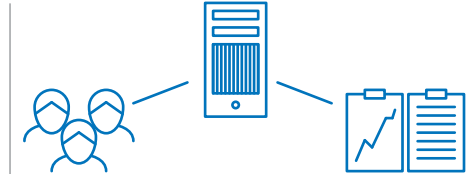
6 hrs power backup for seamless access.



This device requires intermittent access to internet for learner data to get synced with cloud.



Automatically updates the latest content and features whenever it gets access to internet



Allows us to track the learning analytics of students by connecting student learning data to our central dashboard, letting us generate reports for different students, trainers and centres.

Developed by



Benefits

Unique logins for each student and facilitator that they can use to access content both offline and online and on multiple devices.

Facilitators can create their own student batches and keep track of their progress using the learning data

Allows for interaction between students and facilitators through a discussion forum which gives a sense of communication in the virtual world without internet.

Center- or organisation-heads can see the centre performance data dashboards to keep track of learning progress and take informed decisions.

► LearnPi can be shipped to different centres and comes with an installation guide making it easy for anyone to install these at the centres.

Outreach

50+

Centers

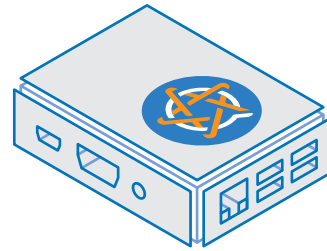
8

States

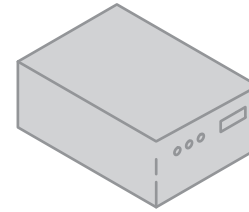
Learners and facilitators are accessing Quest’s digital lessons through LearnPi servers at **more than 50 centers across urban and rural areas, in 8 states** and growing.

Components

Hardware



Raspberry Pi Motherboard

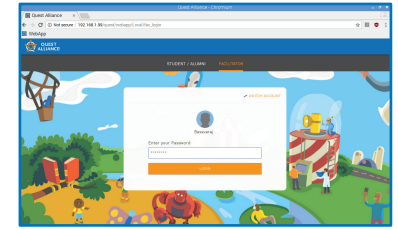


Power Backup

Software

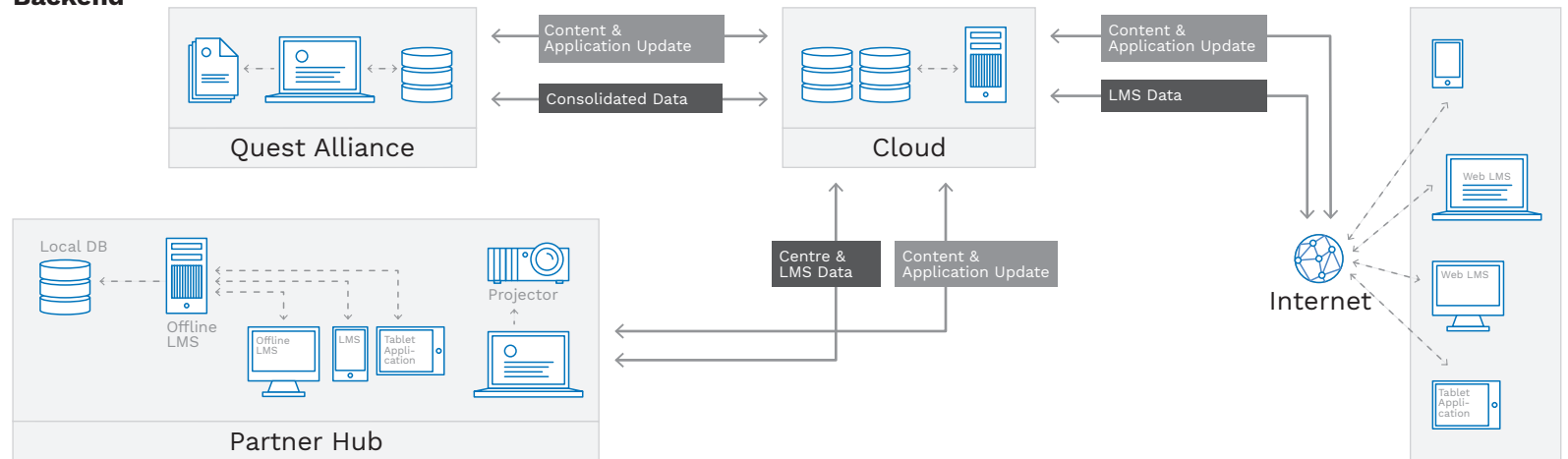


Customised Raspbian OS



Quest Learning App

Backend



Testimonials

LearnPi has made life easier for both students and trainers; it's faster to access and more systems can be connected to engage the students. Learning through the Quest Learning App has become hassle-free.

Sr.Diana, Principal,
Nirmal Jyothi Technical Institute

Before LearnPi, accessing the digital lessons was a tedious process and systems would hang often. Thanks to LearnPi, students can access the lessons faster which in turn speeds up their learning process.

Mary Beena, Trainer,
Sama Foundation

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