



How Bulbee Uses AI to Personalise Learning for Children with Special Needs

Real-time adaptive content generated individually per child — synchronising specialists, parents, and learners in one platform

1:1**PERSONALISATION**

AI generates unique content per child, per session

3**PARTIES SYNCED**

Child, parent, and specialist working from the same data

Real-Time**ADAPTATION**

Content adapts based on diagnosed knowledge gaps

INDUSTRY

EdTech / Healthcare /
Social Impact

PLATFORMS

Web + Tablet App

AI CAPABILITY

AI Content Generation +
Adaptive Learning

TIMELINE

12+ weeks

Challenge

Effective developmental work for children with special needs requires three parties — the child, the parent, and the specialist — to work in sync. In practice, they operate in silos: the specialist runs sessions, the parent does separate exercises at home, and there's no shared visibility into progress.

Static educational content can't adapt to each child's unique developmental trajectory. One-to-one human specialisation is the gold standard but doesn't scale.

Solution

DTS built Bulbee — a platform that synchronises all three parties in a unified adaptive learning system. The child plays games on a tablet that adapt in real-time based on diagnosed knowledge gaps. The AI generates all learning materials — audio, video, images — individually per child, per session.

Parents see real-time progress and align home activities. Specialists have full visibility into the child's development and synchronise their work with both the app and the parent.



Results



Real-time adaptive content per child

AI generates unique learning materials — no static library



Three-party synchronisation

Child, parent, and specialist working from the same data



Faster developmental progress

Personalised, continuous learning paths adapted to each child



Proven architectural scalability

Same core technology reused in Swipery (language learning)

