



Design Thinking and Innovation in UK Digital Commerce



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1. Introduction

The rapid development of digital technology has significantly transformed how businesses operate and how consumers purchase products and services. E-commerce, digital payments, social media, cloud-based software and delivery technologies have become important elements of the modern UK economy. The COVID-19 pandemic accelerated this transformation, requiring many businesses to introduce online ordering, digital communication, remote services and electronic payments. These changes have continued to influence consumer expectations and business models beyond the pandemic.

Digital transformation is increasingly relevant to small and rural businesses, rather than being limited to large organisations or major cities. Small retailers have adopted online ordering and digital payments, while farmers, local producers and service providers increasingly use social media, online booking and digital platforms to reach customers. At the same time, the growth of e-commerce has increased demand for courier and parcel delivery services.

However, digital adoption remains challenging for many small and medium-sized enterprises (SMEs). UK Government research highlights barriers including technology costs, limited expertise, implementation difficulties and uncertainty regarding appropriate digital solutions (Department for Business and Trade, 2025). The SME Digital Adoption Taskforce also identifies a gap between SMEs' digital ambitions and their ability to implement technology effectively.

This report applies **Design Thinking** to identify innovation opportunities within the UK digital economy and proposes **LocalLink**, an integrated platform providing online ordering, digital payments, local delivery coordination and basic digital marketing support. The report applies the five stages of Design Thinking, Empathise, Define, Ideate, Prototype and Test supported by the Double Diamond, Lean Startup and Business Model Canvas. Design Thinking is appropriate because it focuses on user needs while considering technological feasibility and business viability (Brown, 2008).

2. Task 1: Identifying and Justifying Key UK Innovation Opportunities

2.1 The UK Digital Transformation Opportunity

The scenario demonstrates that digital transformation has created a range of opportunities for new ventures. These opportunities are particularly important for SMEs because smaller organisations often lack the financial resources, technical knowledge and specialist employees available to larger companies. The UK's SME population is therefore an important market for accessible digital solutions.

The 2024 Longitudinal Small Business Survey found an upward trend in the use of technologies and web-based software by SME employers for selling to customers and managing businesses. However, businesses continue to face wider pressures relating to costs, competition and growth. This suggests that digital solutions must provide clear and measurable value rather than simply introduce technology for its own sake.

The most attractive opportunities emerging from the scenario are:

1. Integrated e-commerce solutions for SMEs.
2. Digital marketing and social-commerce services.
3. Digital payment and ordering systems.
4. Local and last-mile delivery coordination.
5. Retail management and inventory software.
6. Digital platforms designed specifically for rural businesses.

Although all these areas have potential, the strongest opportunity is to combine several of them into an integrated service rather than offering another standalone technology.

2.2 User Pain Points

The first consideration within Design Thinking is understanding users rather than beginning with a technology. Brown (2008) argues that Design Thinking involves developing solutions around people's needs rather than treating design as a final stage of product development.

The scenario identifies several potential users, including small retailers, rural consumers, farmers, local producers and delivery partners. Each group experiences different pain points.

Small retailers

Independent retailers may understand the importance of digital transformation but lack the time, technical skills and financial resources required to develop a sophisticated online presence. A retailer may need a website, payment system, stock management, delivery arrangements and digital marketing simultaneously. Purchasing multiple technologies from different suppliers creates complexity and additional costs.

The UK Government's research confirms that lack of expertise and execution support are significant barriers to SME technology adoption (Department for Business and Trade, 2025).

Rural consumers

Consumers living in rural areas can experience fewer local retail choices and potentially longer distances to access certain products. Home delivery and online ordering can therefore create substantial convenience. However, consumers may also experience concerns about delivery costs, delivery availability and limited choice from local businesses.

Farmers and local producers

Farmers and producers increasingly have opportunities to sell directly to consumers. However, managing individual orders through Facebook, Instagram, WhatsApp and telephone messages can become inefficient. Producers may lack a central system for payments, stock availability, customer information and delivery management.

Delivery partners

Local delivery drivers require efficient routes, clear customer addresses, delivery instructions and payment information. Fragmented ordering through multiple communication channels can increase administration and reduce delivery efficiency.

Therefore, the central pain point is not simply a lack of technology. Instead, it is **fragmentation**. Users have access to many digital tools but may struggle to connect them into one simple and affordable process.

3. Market Gaps

A market gap exists when customer needs are insufficiently served by existing products or services. The UK already contains major e-commerce platforms, payment providers, delivery companies and website-building services. Therefore, LocalLink cannot compete successfully by simply becoming another general online marketplace.

The opportunity lies in targeting an underserved segment: **small independent and rural businesses that require simple, integrated digital commerce services without the complexity of enterprise-level systems.**

The UK Government's SME Digital Adoption Taskforce highlights that adoption can appear too difficult and costly and that businesses often lack expertise and support. This creates an opportunity for a service provider that focuses not only on software but also on implementation and customer support.

The proposed market gap can therefore be expressed as:

Small and rural businesses need an affordable and easy-to-use way to sell online, accept payments and coordinate local deliveries without managing several disconnected digital systems.

This is a more specific opportunity than simply saying that "businesses need digitalisation".

4. Technological Enablers

Several technological developments make the proposed venture feasible.

Cloud computing

Cloud technology enables businesses to access software without purchasing expensive physical infrastructure. LocalLink could operate as a Software-as-a-Service platform, allowing businesses to pay a monthly subscription.

Mobile technology

Smartphones provide businesses and customers with access to online ordering, payment and communication services. A mobile-first approach would be particularly important because small businesses may not have desktop-based systems.

Digital payments

Online card payments and digital wallets can reduce the need for cash and simplify transactions. Integrated payment technology would allow LocalLink users to receive payments directly through the platform.

Artificial intelligence

AI could eventually support automated customer enquiries, demand forecasting, product recommendations and delivery-route optimisation. However, AI should not be introduced simply because it is technologically fashionable. It should be introduced where it provides measurable customer value.

Cloud-based data analytics

Business owners could receive information about sales, popular products, customer demand and delivery patterns. This could help small businesses make evidence-based decisions.

Social media integration

Integration with platforms such as Facebook and Instagram could allow businesses to promote products while directing customers towards a central ordering system.

The technological opportunity is therefore not the creation of a completely new technology. It is the **integration of existing technologies into a simpler service for a specific customer group**.

5. Scalability and Sustainability

A viable venture must be capable of growing without costs increasing at the same rate as customers. LocalLink would be based on a cloud platform, allowing new businesses to join without requiring individual physical infrastructure.

The business could initially operate within one rural region and then expand into neighbouring towns and counties. Once the software infrastructure is developed, geographical expansion would be relatively scalable.

The business could use a subscription model:

- Basic package: approximately £15 per month.
- Standard package: approximately £30 per month.
- Premium package: approximately £50 per month.
- Small transaction fee for selected payment or delivery services.

These figures would require validation through market testing rather than being treated as final prices.

Sustainability should also be considered in environmental and social terms. Local delivery consolidation could reduce unnecessary individual journeys. Supporting independent retailers could contribute to local economic resilience. Digital access could also help rural businesses reach customers outside their immediate physical location.

However, there are potential sustainability challenges. A digital platform requires data centres, electronic devices and internet infrastructure, all of which have environmental impacts. Furthermore, increased home delivery could potentially increase vehicle emissions if routes are poorly planned. Therefore, the venture should prioritise delivery consolidation and route optimisation.

6. Causal Mapping Analysis

Causal mapping provides a useful way of understanding the relationships between problems rather than viewing them in isolation.

The central problem can be mapped as follows:

Limited digital capability among small/rural businesses

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Limited online presence

↓

Fewer digital sales opportunities

↓

Lower customer reach

↓

Greater dependence on physical footfall

↓

Difficulty competing with larger digital businesses

At the same time:

Fragmented digital tools

↓

Multiple websites/apps/payment systems

↓

Higher complexity

↓

Higher cost and administrative workload



Lower willingness to adopt technology



Continued digital gap.

A second causal chain concerns rural consumer:

Rural location



Greater physical distance from some retailers



Reduced convenience and choice



Greater potential value of home delivery



Higher demand for local e-commerce.

The causal map therefore identifies an opportunity to intervene at the point where **digital complexity prevents adoption**.

The solution is not necessarily to create more technology. Instead, the innovation should reduce complexity by integrating existing technologies.

This approach is consistent with the Design Council's Double Diamond, which encourages organisations to explore the problem broadly before defining the most appropriate challenge and then developing and testing alternative solutions.

7. Brainstorming and Generation of Innovation Ideas

Brainstorming should be used during the Ideate stage to produce a wide range of possible solutions before selecting one. Osborn (1953) argues that separating idea generation from evaluation can encourage greater creative output.

Possible ideas generated from the scenario include:

Idea	Main customer	Potential
Rural online marketplace	Consumers/local retailers	High
Digital marketing agency	SMEs	Medium
Local delivery app	Consumers/delivery drivers	High
Digital payment service	SMEs	Medium
Retail inventory software	Retailers	Medium
Integrated local commerce platform	SMEs + consumers	Very high

The integrated platform is selected because it addresses several interconnected pain points. A delivery-only platform would solve logistics but not online ordering. An e-commerce-only platform would leave delivery and payment problems unresolved.

This demonstrates an important Design Thinking principle: the strongest solution may involve combining existing ideas to create a better overall user experience.

8. Task 2: Applying the Five Stages of Design Thinking

8.1 Stage One – Empathise

The Empathise stage aims to understand users' experiences, motivations and frustrations. Design Thinking is fundamentally human-centred, meaning that entrepreneurs should avoid making assumptions about customers.

For LocalLink, research should involve four key user groups:

1. Independent retailers.
2. Rural consumers.
3. Local producers.
4. Delivery partners.

Primary research

The venture could conduct:

- 20 semi-structured interviews with small businesses.
- 20 consumer interviews.
- Five delivery-driver interviews.
- Observation of how selected businesses currently process orders.
- Online surveys.
- Customer journey mapping.

Questions for retailers could include:

- How do customers currently place orders?
- Which digital tools do you use?
- What is difficult about managing online orders?
- How much time do digital activities require?
- What prevents you from investing more in digital technology?
- What would make a digital platform valuable?

Consumers could be asked:

- How do you currently purchase from local businesses?
- Do you prefer online ordering?
- How important is delivery speed?
- What payment methods do you prefer?
- Would you buy more from local businesses if ordering were easier?

The research should not assume that all rural customers or businesses have identical needs. The evidence from rural SME research suggests that geographical location can influence approaches to digital technology.

User persona

A representative persona could be:

Name: Sarah

Age: 45

Business: Independent village food shop

Location: Rural UK

Problem: Has loyal local customers but no sophisticated online ordering system.

Technology skills: Basic

Needs: Simple ordering, digital payments and local delivery.

Frustration: Multiple platforms are expensive and complicated.

Another persona could be:

Name: James

Age: 38

Role: Rural consumer

Problem: Limited local shopping options during working hours.

Need: Convenient online ordering and reliable local delivery.

These personas make the problem more human and prevent the venture from becoming technology-led rather than customer-led.

9. Stage Two – Define

After collecting user information, the entrepreneur must identify the specific problem.

The evidence suggests that the problem is not that small businesses do not want to use technology. Rather, technology can be perceived as expensive, complicated and difficult to implement.

The problem statement is therefore:

Small and rural UK businesses need a simple, affordable and integrated way to sell products online, accept digital payments and organise local delivery because existing digital solutions are often fragmented, costly or difficult to manage.

A "How Might We" question can then be developed:

How might we enable small and rural businesses to participate effectively in the digital economy without requiring extensive technical knowledge or large financial investment?

This question provides a clear direction for the Ideate stage.

The Define stage is particularly important because poor problem definition can lead to an inappropriate solution. The Design Council's Double Diamond similarly distinguishes between discovering the problem and defining the challenge before developing solutions.

10. Stage Three – Ideate

The Ideate stage involves generating multiple possible responses to the defined problem.

Potential solutions include:

Solution 1: Website builder

A simple system allowing small businesses to create online stores.

Advantage: Easy to understand.

Disadvantage: Does not solve delivery coordination.

Solution 2: Local delivery application

A platform connecting businesses with local delivery drivers.

Advantage: Addresses logistics.

Disadvantage: Businesses would still require separate ordering systems.

Solution 3: Digital marketplace

A platform where local businesses can list products.

Advantage: Provides customer visibility.

Disadvantage: Businesses could become dependent on another marketplace.

Solution 4: Integrated LocalLink platform

An integrated system offering:

- Online store.
- Digital payments.
- Order management.
- Local delivery.
- Social media integration.
- Basic analytics.
- Customer communication.
- Digital support.

This fourth option provides the strongest response because it addresses the problem holistically.

11. Proposed Venture: LocalLink

LocalLink would be a digital commerce platform designed specifically for independent and rural UK businesses.

The platform would allow a business to register, create a digital catalogue and begin accepting orders without requiring advanced technical knowledge.

Core features

1. Digital storefront

Businesses can upload products, prices, photographs and descriptions.

2. Online ordering

Customers can place orders through a website or mobile interface.

3. Digital payments

Customers can pay securely online.

4. Delivery coordination

Businesses can select local delivery options and communicate delivery requirements.

5. Social media integration

Businesses can share products on social media and direct customers to the ordering platform.

6. Customer communication

Automated notifications can confirm orders and delivery times.

7. Analytics

Businesses can see sales trends and popular products.

8. Digital support

Users can access tutorials, live support and onboarding assistance.

The support element is important because the UK Government's research indicates that businesses value reliable and personalised support when adopting technology.

12. Stage Four – Prototype and Minimum Viable Product

The venture should not immediately spend substantial capital developing a complete application. Lean Startup thinking suggests that entrepreneurs should test assumptions through a Minimum Viable Product (MVP) and learn from customers before significant investment (Ries, 2011).

The LocalLink MVP would therefore contain only the essential functions:

1. Business registration.
2. Digital storefront.
3. Product catalogue.
4. Customer ordering.
5. Digital payment.
6. Delivery request.
7. Basic order tracking.

Advanced AI, sophisticated analytics and complex loyalty programmes would initially be excluded.

A simple web-based prototype could be developed before a full mobile application.

Customer journey

Business registers

↓

Uploads products

↓

Customer discovers business

↓

Customer selects product

↓

Customer places order

↓

Digital payment

↓

Business receives order

↓

Delivery partner collects order

↓

Customer receives order

↓

Customer provides feedback.

This prototype would allow the entrepreneur to test the entire service experience rather than simply testing the appearance of an application.

13. Business Model Canvas

Osterwalder and Pigneur (2010) argue that the Business Model Canvas can help entrepreneurs understand how an organisation creates, delivers and captures value.

Customer segments

- Independent retailers.
- Rural shops.
- Farmers.
- Local producers.
- Service businesses.
- Rural consumers.

Value proposition

"One simple platform for local businesses to sell online, receive payments and manage local delivery."

Channels

- Website.
- Mobile platform.
- Social media.
- Local business associations.
- Community organisations.
- Digital adoption programmes.

Customer relationships

- Online support.
- Tutorials.
- Live assistance.
- Customer feedback.
- Business onboarding.

Revenue streams

- Monthly subscriptions.
- Transaction fees.
- Optional premium services.
- Delivery coordination fees.

Key resources

- Digital platform.
- Software developers.
- Customer support team.
- Payment infrastructure.
- Delivery partnerships.
- Customer data.

Key activities

- Platform development.
- Customer acquisition.
- Technical support.
- Payment processing.
- Delivery coordination.
- Data analysis.

Key partners

- Payment providers.
- Local delivery companies.
- Local councils.
- Business associations.
- Technology providers.
- Community organisations.

Cost structure

- Software development.
- Hosting.
- Marketing.
- Staff.
- Customer support.
- Cybersecurity.
- Payment processing.

The Business Model Canvas Complements Design Thinking because Design Thinking focuses strongly on user desirability while the Canvas helps evaluate commercial viability.

14. Stage Five – Test

Testing is critical because an idea that appears attractive to an entrepreneur may not be attractive to customers.

The first pilot should involve approximately **20 local businesses and 100 consumers** in one selected rural area. This would provide enough variation to identify common problems while keeping the pilot manageable.

Testing should examine:

Usability

Can a business create its online store without technical assistance?

Adoption

How many businesses complete registration?

Customer conversion

How many visitors place an order?

Repeat usage

Do customers return?

Delivery performance

What percentage of orders arrive within the promised delivery window?

Customer satisfaction

Would customers recommend the service?

Business satisfaction

Do retailers believe the platform saves time?

Potential KPIs could include:

- 80% of pilot businesses successfully creating a store.
- 70% of businesses remaining active after three months.
- 90% successful payment completion.
- 90% on-time delivery target.
- Customer satisfaction above 80%.
- At least 30% repeat purchasing during the pilot.

These are proposed targets rather than established market results and should be adjusted following the pilot.

15. Testing and Iteration

Design Thinking should not be considered a linear process. The results of testing can require the entrepreneur to return to Empathise or Define.

For example, if retailers report that uploading products takes too long, the problem may not be the storefront itself. The entrepreneur may need to redesign the onboarding process.

If customers complain about delivery costs, the business model may need to change.

If delivery drivers report inefficient routes, route optimisation may become a higher development priority.

The Design Council emphasises that the Double Diamond involves iteration, testing and refinement rather than a rigid linear process.

This iterative process can be represented as:

Prototype → Test → Feedback → Analyse → Improve → Retest

rather than:

Idea → Product → Launch

This distinction is fundamental to entrepreneurial innovation.

16. Critical Evaluation of Design Thinking

Design Thinking provides several advantages for the LocalLink venture.

First, it reduces the risk of developing a product based purely on assumptions. By interviewing retailers and consumers, the entrepreneur can understand actual needs.

Second, it encourages experimentation. A prototype can be tested before significant financial resources are committed.

Third, it supports collaboration. Retailers, consumers, delivery partners and technology specialists can contribute to the development process.

Fourth, it supports innovation beyond the product itself. The entrepreneur can redesign the entire customer journey, including ordering, payment, delivery and support.

However, Design Thinking also has limitations.

One criticism is that it can oversimplify complex organisational and economic problems. A customer-centred design does not automatically guarantee profitability. A platform may be desirable but still fail because customer acquisition costs are too high.

Another limitation is that user research can produce biased findings. Customers may state that they would use a service but behave differently when required to pay for it.

Design Thinking can also become superficial if organisations use workshops and brainstorming without implementing the resulting ideas.

Therefore, Design Thinking should be combined with commercial analysis, financial forecasting, Lean Startup experimentation and business model evaluation.

17. Double Diamond as a Complementary Framework

The Design Council's Double Diamond provides four stages: **Discover, Define, Develop and Deliver**. It uses divergent and convergent thinking to explore problems and then develop solutions.

The framework is highly compatible with the five-stage Design Thinking model.

Design Thinking Double Diamond

Empathise	Discover
Define	Define
Ideate	Develop
Prototype	Develop
Test	Deliver

The advantage of combining the models is that the five-stage model provides greater detail concerning user-centred innovation, while the Double Diamond emphasises the movement between broad exploration and focused decision-making.

The Design Council specifically describes the Double Diamond as a process involving divergent and convergent thinking.

For LocalLink, this prevents premature commitment to the first idea generated.

18. Lean Startup Approach

Lean Startup thinking provides another useful perspective.

Ries (2011) argues that entrepreneurs should develop, measure and learn rather than if an initial product will succeed.

For LocalLink, the cycle would be:

Build → Measure → Learn

The MVP represents the "Build" stage.

The pilot measures:

- Number of users.
- Orders.
- Payments.
- Delivery success.
- Customer satisfaction.
- Retailer satisfaction.

The entrepreneur then learns which assumptions were correct.

For example, the entrepreneur may assume that businesses want an advanced analytics dashboard. If testing shows that retailers are more concerned with easy product uploading, development resources should be redirected.

Therefore, Lean Startup complements Design Thinking by adding a stronger emphasis on entrepreneurial experimentation and evidence.

19. Sustainability and Social Value

LocalLink has potential to create economic, social and environmental value.

Economic sustainability

The platform could help small businesses increase their customer reach and diversify revenue sources. Subscription revenue could provide predictable income for the venture.

Social sustainability

Supporting independent businesses could strengthen local communities and reduce dependence on large national retailers. Rural businesses could gain access to digital customers without relocating.

Environmental sustainability

LocalLink could encourage grouped deliveries and route optimisation. However, this benefit depends on effective delivery management. The business should measure delivery miles and encourage low-emission vehicles where possible.

Digital inclusion

Digital transformation should not create new forms of exclusion. Some users may have limited digital skills or poor connectivity. Consequently, LocalLink should provide simple interfaces, telephone support and accessible onboarding.

This is particularly important because technology adoption should be viewed as an organisational and human process rather than merely a technical decision.

20. Scalability Strategy

LocalLink should follow a staged expansion strategy.

Phase 1: Local pilot

Operate within one rural community.

Phase 2: Regional expansion

Expand into several neighbouring towns.

Phase 3: National expansion

Target rural communities across the UK.

Phase 4: Platform diversification

Introduce:

- AI customer support.
- Advanced analytics.
- Inventory forecasting.
- Route optimisation.
- Loyalty schemes.
- Business-to-business ordering.

The platform should avoid expanding too quickly. Scaling before achieving product-market fit could increase costs and expose the business to operational problems.

21. Risk Analysis

Several risks need to be considered.

Financial risk

Developing and maintaining software requires investment.

Mitigation: Start with a small MVP and use staged investment.

Cybersecurity risk

The platform will handle customer and business information and potentially payment-related data.

Mitigation: Use recognised payment providers, encryption, access controls and appropriate data protection procedures.

Competition

Established platforms already provide e-commerce, payments and delivery services.

Mitigation: Focus on a clearly defined niche and differentiate through integration, simplicity and local support.

Low adoption

Some businesses may be reluctant to change existing practices.

Mitigation: Provide free trials, onboarding and training.

Delivery failures

Late or unsuccessful deliveries could damage customer trust.

Mitigation: Establish clear delivery standards and monitor performance.

Digital exclusion

Some users may have limited technical skills.

Mitigation: Use accessible design, telephone assistance and simplified interfaces.

22. Overall Evaluation

The proposed LocalLink venture demonstrates strong alignment between the opportunity identified in the scenario and the principles of Design Thinking.

The **Empathise** stage identifies the experiences of small businesses, rural consumers and delivery partners. The **Define** stage converts these insights into a focused problem statement. The **Ideate** stage generates several possible responses before selecting an integrated digital commerce platform. The **Prototype** stage translates the concept into an MVP, while the **Test** stage provides evidence for further refinement.

The opportunity is particularly attractive because it addresses a genuine market gap rather than attempting to compete directly with major general-purpose e-commerce platforms.

The UK Government's recent evidence indicates that many SMEs still face barriers involving technology cost, expertise and implementation. This supports the proposed focus on simplicity and support.

The venture also demonstrates scalability because the underlying software platform can be expanded geographically. Nevertheless, scalability should be based on evidence of product-market fit rather than assumptions.

23. Conclusion

Digital transformation has fundamentally changed the UK business environment, with the COVID-19 pandemic accelerating the adoption of e-commerce, digital payments, remote services, online marketing and delivery systems. Although these developments have created opportunities, significant challenges remain for small and rural businesses that lack the technical expertise, financial resources or time required to implement multiple digital technologies.

This report identified an opportunity to address this gap through **LocalLink**, an integrated digital commerce platform designed for small and rural businesses. The platform would combine online ordering, digital payments, local delivery coordination, social media integration and basic business analytics.

Design Thinking provides the central framework for developing the venture because it begins with users and encourages iterative experimentation. Causal mapping helped identify the underlying causes of digital adoption difficulties, while brainstorming generated alternative solutions. The Double Diamond strengthened the analysis by incorporating divergent and convergent thinking, and Lean Startup principles provided a method for developing and testing an MVP.

The proposed venture has economic, social and environmental potential, although risks involving competition, cybersecurity, adoption and delivery must be carefully managed. Ultimately, LocalLink's success would depend not on technology alone but on its ability to create a simple, affordable and genuinely valuable experience for businesses and consumers.

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