IS Innovation & New Technologies: Midterm Review
Dimensions of Information Systems
Innovative Mobile App Features
Business Strategy & Market Disruption
Cloud Service Models (IaaS, PaaS, SaaS)
Ethics, Privacy, & Accountability

CHEAT SHEETS HERO

IS Innovation & New Technologies: Midterm Review

Section 1: Fundamentals of Information System

Definition: A system that collects, processes, stores, and provides useful information .
The Three Dimensions of IS:
Organization: People, business processes, rules, and procedures .
Management: Decision-making, monitoring performance, and planning ahead .
Technology: Hardware, software, databases, and networks .
Importance: Helps businesses work faster, reduce errors, improve decisions, and stay competitive .

The Golden Rule: "IS = People + Processes + Technology working together. Technology alone is NOT IS."

Section 2: Mobile App Features & Design

Core Types:
Recommendation Systems: Suggests content based on behavior (e.g., Netflix) .
Automation: Tasks performed without user input (e.g., auto-save) .
Real-Time: Instant updates (e.g., live chat, ride tracking) .
Offline Capability: Functions without internet (e.g., offline notes) .
Instant Access: Fast login via biometrics (Face ID) .
Feature Justification: Every feature must have a purpose, solve a real problem, and improve user experience (UX)
Disruption: (e.g., Streaming vs. Movie Theaters)

Section 3: Business Strategy & Innovation

Competitive Factors: Competitors, barriers to entry, customer choice, and substitutes (e.g., streaming vs. movie theaters) .
Disruption: When new technology completely changes an industry (e.g., ride-hailing replacing taxis) .
Value Creation: Successful companies combine strategy, technology, and customer experience through operations, marketing, and support .

Section 4: Cloud Technology & Innovation

Definition: Delivering computing services (storage, apps) over the internet instead of local servers .
The "As-A-Service" Trio:
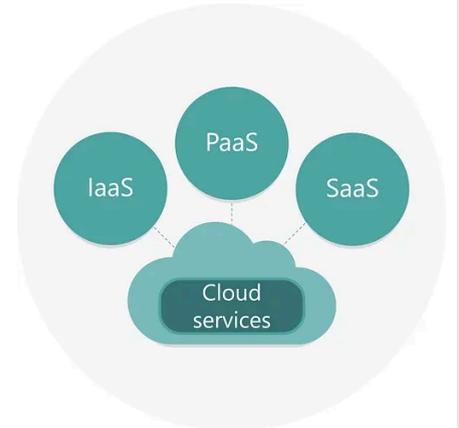IaaS (Infrastructure): Provides servers and storage .
PaaS (Platform): Provides tools for developers to build apps .
SaaS (Software): Ready-to-use apps over the web (e.g., Email, Google Drive) .
Key Benefits: Scalability (grows with you), cost efficiency, and flexibility .
Challenges: Security risks, privacy issues, and internet dependence

Service	Focus	Example
IaaS	Servers/Storage	AWS / Azure
PaaS	Dev Tools	Google App Engine
SaaS	Ready-to-use Apps	Gmail / Drive

Section 5: Ethics, Privacy, & Accountability

Ethics: Determining "right and wrong" in tech behavior .
Major Risks: Data misuse, lack of transparency, and privacy breaches .
User Rights: Users should know what data is collected and have control over it .
Accountability: "Companies must take responsibility for data breaches and inform users immediately." This is a major point in your "How Companies Compete" module.