

### Key Dependencies

- (SCRUM-31) Personalization Form must be completed before
  - (SCRUM-9) Interactive Checklist since checklist items depend on user profile
- (SCRUM-27) Checkout Page - Frontend depends on
  - (SCRUM-13) Save Cart for Later and (SCRUM-9), to ensure items and states are in sync during checkout
- (SCRUM-14) Order Update Submission and (SCRUM-26) Contact/Support Page both rely on:
  - A working form system and backend communication

### Critical Path

SCRUM-31 → SCRUM-9 → SCRUM-13 → SCRUM-27

This is the longest sequence of interdependent tasks required to complete the personalized dorm shopping and checkout experience. Delays in SCRUM-31 (user profile form) would block the checklist (SCRUM-9), which affects cart logic (SCRUM-13), and ultimately the checkout UI (SCRUM-27).

### Risk Areas

- Late start on critical tasks: The personalization form was essential for multiple downstream features, but development began mid-sprint due to delayed clarification.
- Team member inactivity: One member became unresponsive during the sprint, affecting backend-related stories (e.g., SCRUM-34).
- Parallel UI work caused overlap: Without clear UI ownership, there were minor overlaps between team members working on SCRUM-9 and SCRUM-27.

### Lesson Learned

- Establish dependencies visually early in the sprint to prevent accidental bottlenecks
- Assign UI and backend ownership clearly to minimize redundant work
- Have a backup plan for inactive team members to ensure sprint commitments are met