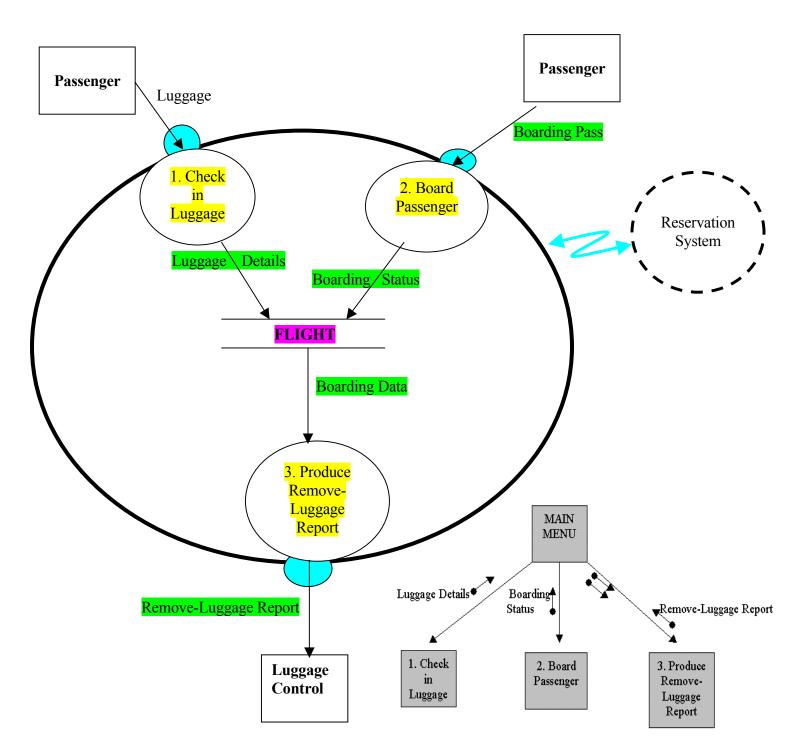
Systems Design Components

Design of

- data elements
- \succ database
- process logic
- \succ user interface
- system interfaces
- program structure



The Elements of Information System Design

Issues

Graphic tools

	Static/Structure	Dynamic/Flow
Data	 1. Database What data need to be stored? How are they defined? How should these data be grouped (into files)? How should these files be linked? <i>Entity-Relationship Diagram</i>	 2. Data Flow What are the data flows into, within, and out of the system? What data need to be entered? From whom? Through what interface? What are the internal processes within the system? What information needs to be produced by the system? To whom? Through what interface? <i>Data Flow Diagram</i>
Process	 3. Program Structure What processes should the system perform? How are these processes to be organized and related to one another? <i>Structure Chart</i> <i>Action Diagram</i> 	 4. Process Logic What is the internal, step-by-step logic within each process, linking its given inputs to its required outputs? Flowchart Structured English/Pseudocode

A Slice of I.S. Functionality

