



Molding Machine Dashboard

Group 19

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DID YOU KNOW ?



**Current
consumption of
plastic in Sri Lanka is
265000 Mg per
annum!**



Five types of plastic molding

- Extrusion molding
- Compression molding
- Blow molding
- **Injection molding**
- Rotational molding

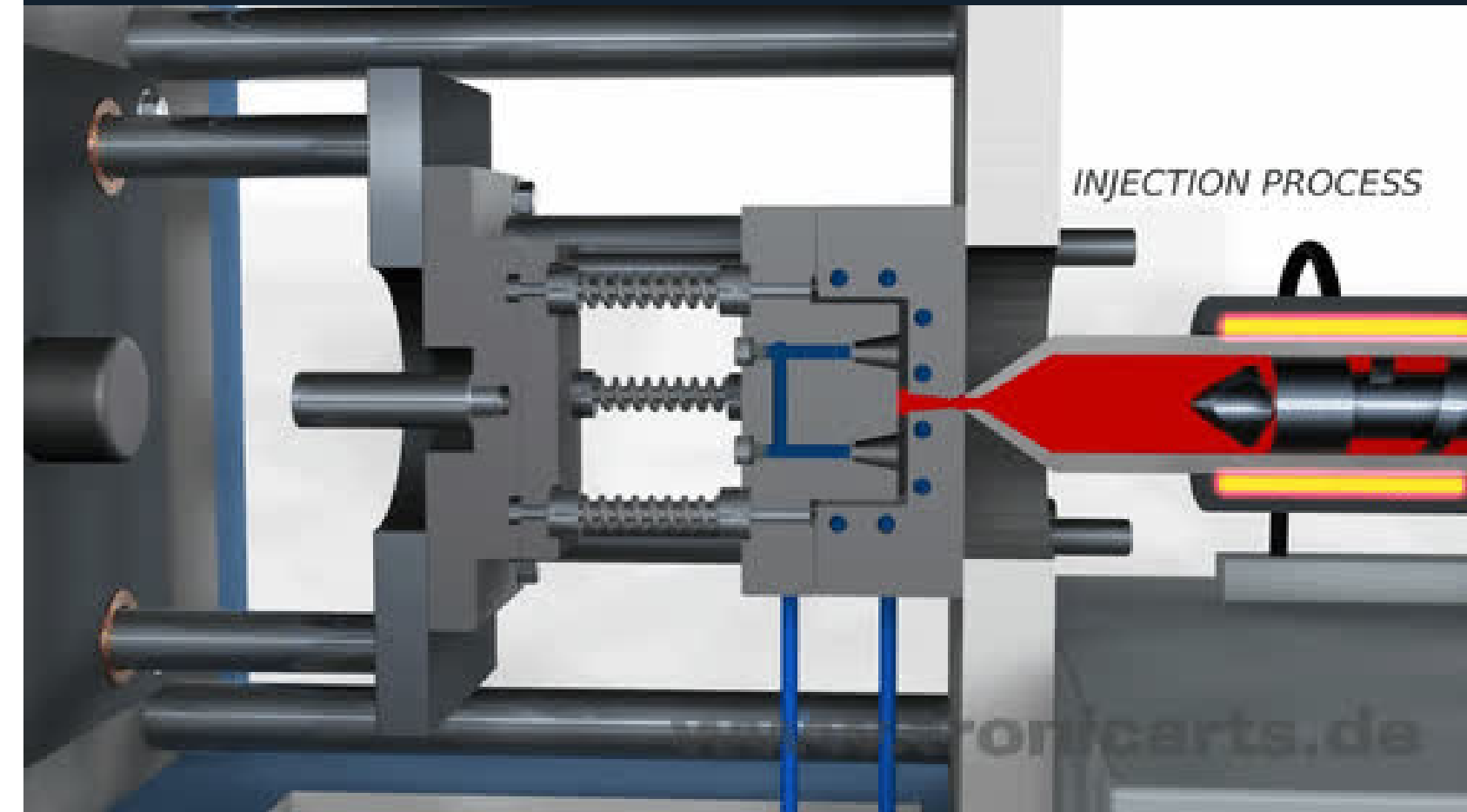
Injection molding is the most common method for manufacturing plastic parts, particularly in high volumes.

Injection molding process

Injection molding is a process for producing parts by

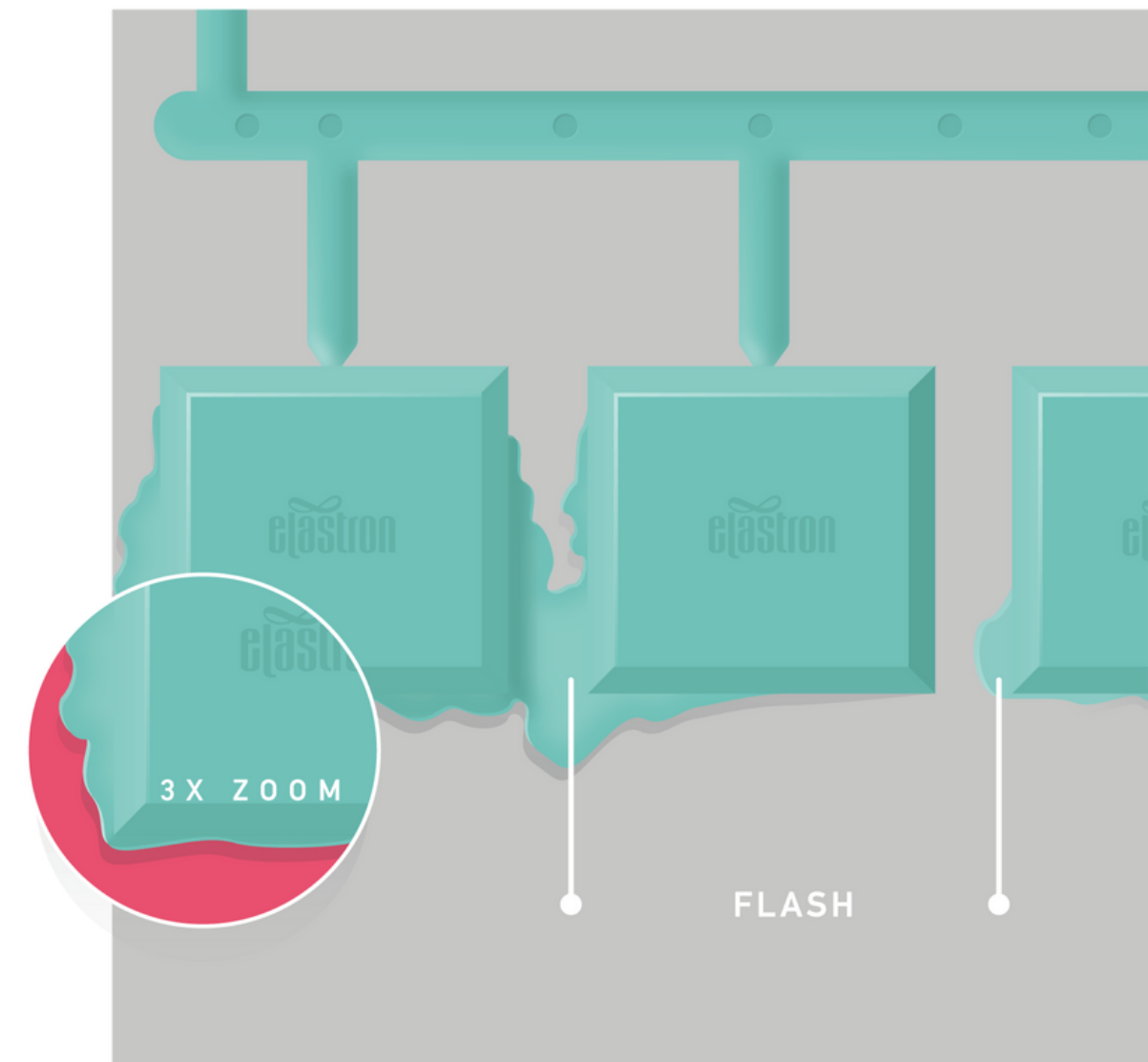
- Injecting molten material into a mold
- Cools down and hardens
- Eject the mold

? stuck plastic problem

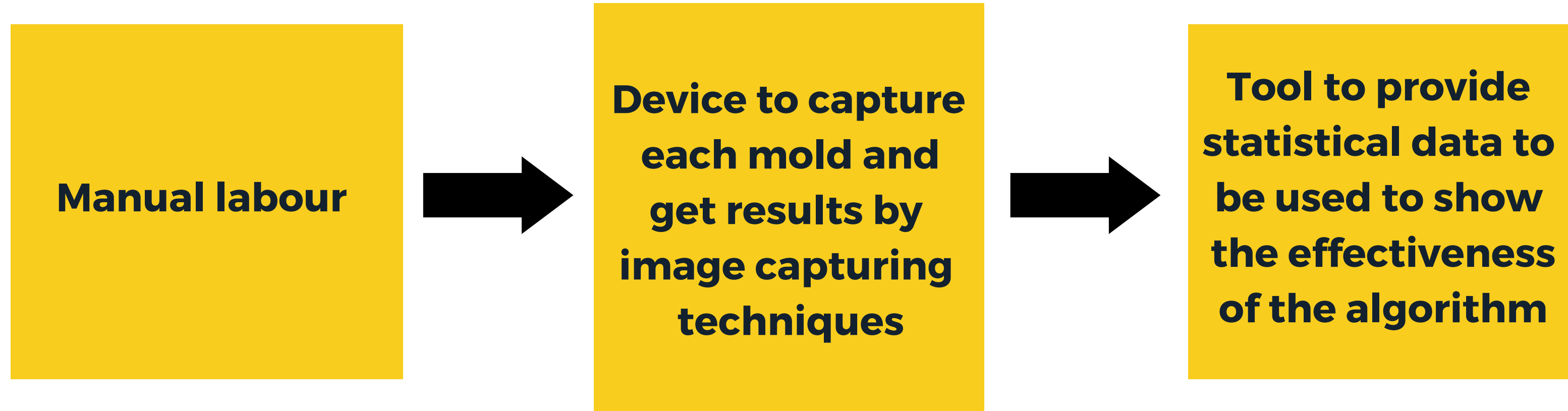


Residue particles can cause many issues in the production environment

- Damage to the mold
- Defects in products
- Waste of resources



Proposed solutions so far



What if we had a method to view statistical data pertaining to different machines?

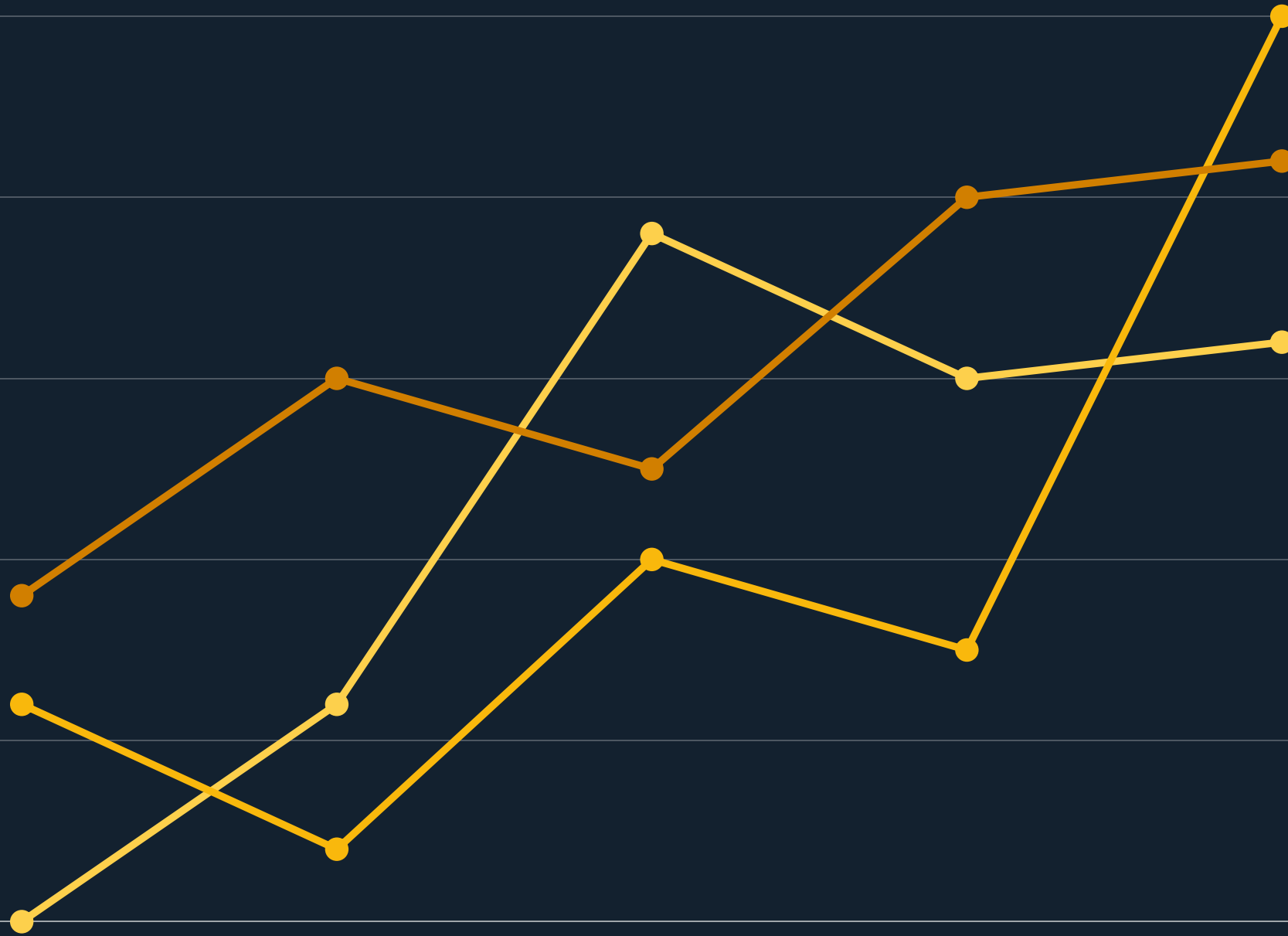


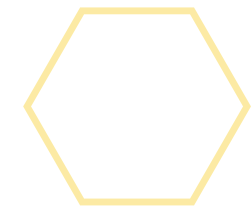
Molding Machine Dashboard



Benefits for the system

- Central view of data
- Easy of management
- Saves time and resources
- Improves decision making
- Up-to-date progress evaluation





Our Plan

Interfaces for

- Machine overview
- Statistical data of each machine
- Production data

Features

**Graphical
representation
of data**



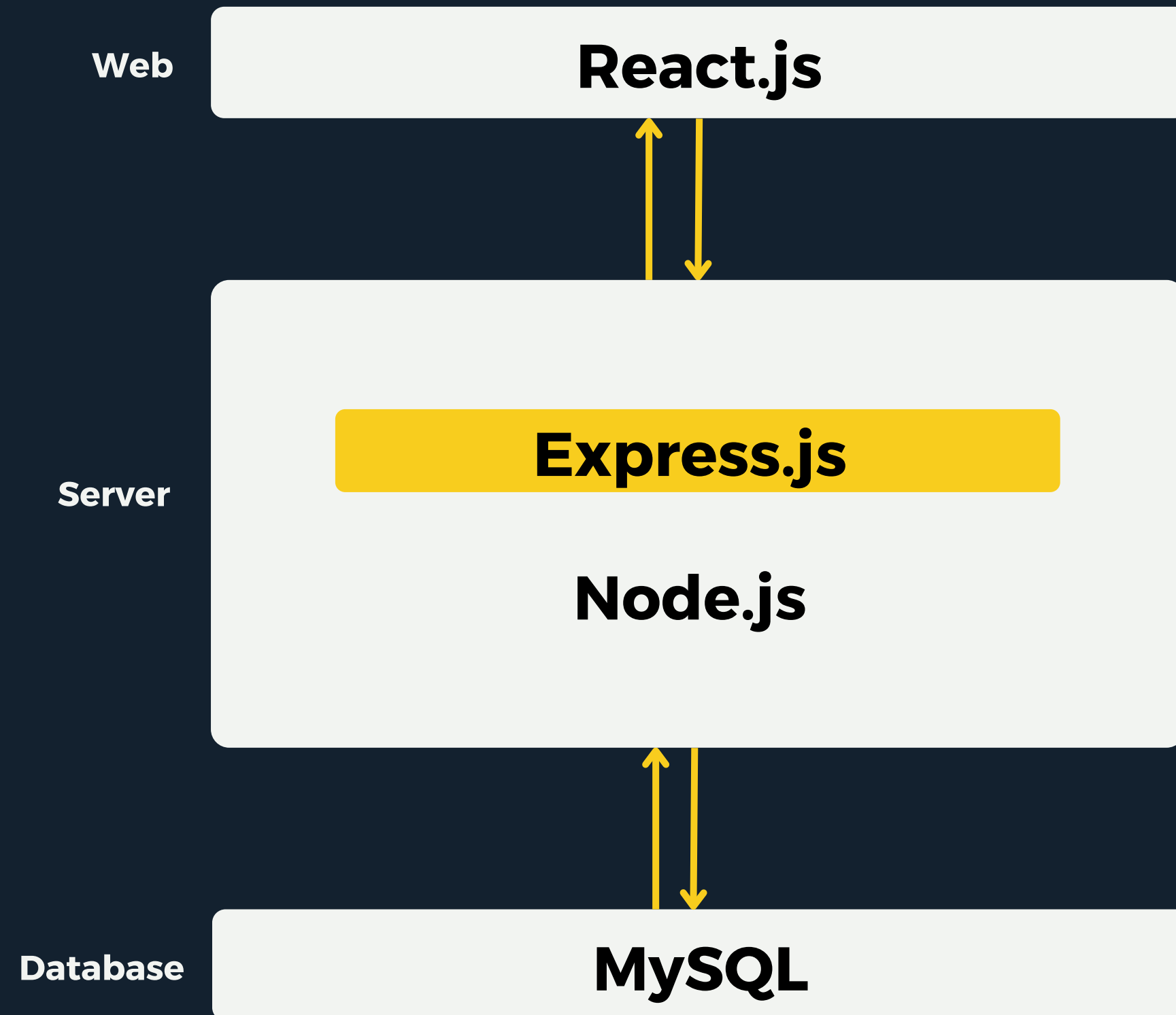
**Ability to generate
reports**



**Ability
to handle 25+
machines**



Technology Stack



Project Timeline



Planning

Identifying software requirements



Design & Development

Frontend, UI/UX



Implementation

Works on product increment



Testing

Evaluating and Verifying



Retrospective

Discuss success and improvements

Q & A



Thank You...