Webpack + React Cheat Sheet (Hindi-English Mix)

Advanced Webpack Concepts

Ab hum Webpack ke kuch advanced concepts ko samjhenge, easy Hindi-English tricks ke saath.

1. Code Splitting

Bade apps me sab kuch ek bundle me hone se load slow ho sakta hai.

Code Splitting allow karta hai app ko chhoti files me split karna, jo zarurat par hi load hoti hain.

Example:

```
import('./MyComponent')
```

Trick: Split karo, Speed badhao!

2. Tree Shaking

Aapke code me unused functions ya variables hain, to Webpack unko hata sakta hai (Production mode me).

Ye kaam karta hai ES6 module syntax (import/export) ke saath.

Trick: Use kiya to bacha, nahi to hata!

3. Environment Variables

Different environment ke liye (dev/prod) alag configs chahiye hoti hai.

Webpack DefinePlugin se environment variables set kar sakte hain.

Example:

```
new webpack.DefinePlugin({
  'process.env.NODE_ENV': JSON.stringify('production')
})
```

Trick: Define your mood!

4. Custom Loaders

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Aap apna custom loader bana sakte ho e.g. markdown to HTML converter.

Custom loader ek JS function hota hai jo source code ko transform karta hai.

Trick: Har file ka apna behavior banao.

5. Custom Plugins

Plugins Webpack ke lifecycle me hook karte hain aur custom tasks perform karte hain.

Custom plugin ek class hoti hai jisme apply() method hota hai.

Trick: Webpack ka magic wand = Plugin System

Quick Summary Table

Concept   - Role / Trick

Code Splitting   - Load on demand

Tree Shaking   - Remove unused code

Env Variables   - DefinePlugin for mood

Custom Loaders   - Source transformers

Custom Plugins   - Webpack automation tools