

# Summary – Project Execution & Control (PMBOK Guide, Part 1)

**Source:** *A Guide to the Project Management Body of Knowledge (PMBOK® Guide, 6th Edition)*

## **Scope**

This chapter covers two major **Process Groups** essential to successful delivery:

1. **Direct and Manage Project Work** (Execution)
  2. **Monitor and Control Project Work**
- 

## **1. Direct and Manage Project Work**

This involves **leading and performing** the work defined in the project management plan and implementing **approved changes**.

### **Key Elements:**

- **Deliverable Creation** – Tangible outputs such as code, documents, models.
- **Issue Resolution** – Addressing blockers and constraints actively.
- **Change Implementation** – Applying approved change requests via the Change Control Board (CCB).
- **Knowledge Transfer** – Capturing tacit and explicit knowledge during execution for reuse and learning.
- **Progress Communication** – Keeping stakeholders informed of outcomes and challenges.

## **2. Monitor and Control Project Work**

This process tracks, reviews, and regulates progress and performance and identifies areas requiring plan updates or corrective actions.

## Key Tools & Techniques:

- **Work Performance Data** – Raw observations like hours worked, number of bugs, feature completion rates.
- **Variance Analysis** – Comparing planned vs. actual scope, cost, and schedule.
- **Forecasting** – Predicting future trends based on current data (e.g. velocity, defect rates).
- **Integrated Change Control** – Managing all changes in a controlled way.
- **Trend Analysis** – Spotting emerging patterns that may indicate risks or deviations.

## Outputs:

- **Work Performance Reports**
- **Change Requests**
- **Updated Project Documents and Plans**

# Application to Your TTrack Project

PMBOK Concept	How It Applies to TTrack
<b>Deliverable Management</b>	Each milestone in TTrack (e.g., loading transcripts, parsing curriculum, producing reports) represents a clear deliverable. You're directly managing and building these iteratively.
<b>Change Implementation</b>	You've adapted scope mid-way (e.g., added .app builds, sample data files). Formalizing these as change requests could help clarify why they were made.
<b>Monitoring Tools</b>	You've used demos and feedback sessions as informal tracking tools. You could enhance this by logging completed features and upcoming tasks using Notion or Trello.
<b>Performance Data</b>	While you haven't tracked hours formally, tracking time per feature can help future planning.

### **Forecasting & Variance**




You've self-adjusted expectations based on delays (like UI or packaging) — exactly the kind of reflection PMBOK promotes.

### **Progress Reporting**

Your updates to Dr. Atif (e.g., sharing builds) act as informal progress reports. Turning them into weekly structured summaries would match industry best practice.

## **Final Insight**

This chapter emphasizes **structured feedback loops** between doing and reviewing — exactly what you're doing informally through agile iteration in TTrack. To align more with PMBOK:

-  Document decisions and changes clearly (a change log helps).
-  Track progress weekly using tasks completed vs planned.
-  Share reports with stakeholders (like Dr. Atif) in a simple “Done / Next / Risk” format.